

Town Of Berlin
Engineering Department
Public Rights Of Way
Requirements & Details

ENGINEERING DEPARTMENT TOWN OF BERLIN BERLIN, CONNECTICUT

6-91

PUBLIC RIGHTS OF WAY ORDINANCE

Be it ordained by the Town of Berlin that the following ordinance entitled "Public Rights Of Way Ordinance" be accepted, adopted and legalized by printing:

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SECTION I - GENERAL

A. Licenses - To Whom Issued

A license to perform specific work within the Public Rights of Way will be issued by the Town Engineer or his designated agent to any person or corporation who shall make proper application thereof, file a satisfactory bond, show evidence of liability insurance as specified herein, and satisfy the chief executive officer of the town or his designated agent that he is competent and intends to perform his work in accordance with all applicable conditions, rules, regulations and specifications herein contained or hereafter adopted. A fee of twenty five (\$25.00) dollars will be charged for each license issued.

B. Bond

Before a license is granted the applicant therefor must file with the Town Engineer's Office a surety bond in the sum of \$1,000 made out on a form provided by said office for the purpose, by a regular indemnity or surety company authorized to transact business in Connecticut and approved by the chief executive officer of the town or his designated agent.

C. Insurance

The contractor applying for a license shall furnish to the Town of Berlin a valid insurance certificate completed by his agent or insurer for the amounts described as follows: Liability - with Bodily Injury limits of five hundred thousand (\$500,000) dollars each person; one million (\$1,000,000) each accident; with Property Damage limits of one hundred thousand (\$100,000) dollars each accident.

The insurance shall cover the entire contract period as well as the maintenance period of eighteen (18) months and in the event that the insurance expires during this time the contractor shall furnish the town with a renewal certificate at least ten (10) days prior to its expiration or the license and any permits pursuant to it shall be null and void. The property damage insurance shall specifically cover damage to underground pipes and conduits, damaged while using mechanical equipment to excavate in the public right of way. The insurance shall specifically name the Town of Berlin as additional insured.

In the event a licensee shall fail to renew an insurance policy which expires during said maintenance period, the Town Engineer or his designated agent may renew said policy after written notice to the licensee and to his surety company and upon their failure to furnish a renewal certificate, charge the cost thereof to the surety company.

D. Business Address (and telephone)

The applicant for a license shall file his business address and the telephone number at which he may be reached in case of emergency with the Town Engineer's office, and shall notify said office promptly of any change therein. Any orders or notices which the Town Engineer's office or its authorized agent may have to give to said applicant, if mailed to the address as filed, shall be considered as due notice delivered to him personally; and shall relieve the town of further obligation in the matter.

E. Expiration of Licenses.

All licenses will expire on the 1st day of January next following their date of issue, unless sooner revoked, and a new application must be made in all

respects like the first and a new license obtained before any work can be performed thereafter by the licensee.

F. Revocation of License

The Town Engineer or his designated agent may at any time revoke or suspend any license for cause. Sufficient cause for revocation or suspension includes, but is not limited to, failure of the licensee or his agents to comply with any section of this ordinance. Cancellation of insurance or bond of a licensee automatically suspends said licensee's license. No work or activity may be conducted by a licensee, other than emergency work ordered by the town, while said licensee's license is revoked or suspended.

G. All Work to be Done By Licensed Contractors

No one but a contractor, duly licensed by the Town Engineer or his designated agent as herein provided, or governmental agency or public service company, shall do any work upon any public right of way in the town but this rule shall not prevent the making, without such license, of temporary or minor repairs by the owner of the abutting property, or such owner's agent providing a permit is obtained for said repairs.

H. License Not Transferable

No licensed contractor or abutting property owner shall transfer his license or permit to any other person for any purpose whatsoever.

I. None But Competent Men to be Employed

No person employed by any licensed contractor under his license shall be allowed to perform any work whatsoever if, in the opinion of the Town Engineer, such employee shall have shown himself incompetent to perform such work as he is expected to do. The licensed contractor shall provide supervision over the work at all times.

J. Permits

No work within the public rights of way shall be performed without a permit issued by the Town Engineer or his designated agent. Application for permits to perform any work within the public rights of way in the town must be submitted in writing by a licensed contractor or governmental agency or public service company or their authorized agent on forms provided for the purpose by the Town Engineer. No permit for excavation shall be issued until the applicant provides a ticket number issued by the state "Call Before You Dig" agency. No work shall be commenced or be continued unless the permit is in possession of the permittee or his agent at the location of the work. Permit fees shall be in accordance with the following schedule:

1. Any work requiring excavation within a public right of way - twenty-five (\$25.00) dollars for each opening of 25 feet or less in length plus 50/100 (\$.50) dollars per linear foot of openings longer than twenty-five feet.

2. For all other permits - ten (\$10.00) dollars.

3. Failure to obtain a permit prior to commencing work for which a permit is required under the provisions of this ordinance, excluding any emergency work, shall result in the imposition of a late fee in the amount of twenty-five (\$25.00) dollars in addition to the above fees.

K. Notice Before Starting Work

Notice must be given at the office of the Town Engineer not less than

forty-eight (48) hours, excepting weekends and holidays, before starting any work for which line, grade, or the location of buried utilities, or any other pertinent information is required to be obtained prior to commencing work. No permittee shall commence work on a public right of way until such line and grade or the location of buried utilities, has been marked. Should any stakes or marks be moved or lost, the permittee shall not proceed without them but shall notify the office of the Town Engineer and request their replacement. Any work which is not true to line and grade shall be ordered removed and replaced to the proper line and grade at the expense of the permittee.

L. Test Pits

Where in the opinion of the Town Engineer a test pit or pits are required to ascertain subsurface conditions, they shall be provided by the permittee prior to performing the permitted work at no expense to the Town. The excavation, backfill, and restoration for test pits shall be in accordance with Section 2 of this ordinance, as applicable.

Inspections - Correcting Un satisfactory work

The Town Engineer, or his designated agent, is empowered to inspect, or cause to have inspected, at any time, any or all work being performed under a permit issued under this ordinance.

Inspection services are required at each stage of construction of permitted activities, including but not limited to: Before backfilling of trenches, during compaction of trenches, before permanent pavement restoration, and before driveways and sidewalk surfaces are installed. The permittee shall request necessary inspections at least four (4) working hours before commencing the work to be inspected.

If, in the opinion of the inspector the work being performed does not meet the specifications and conditions approved or required, the permittee shall correct such condition, commencing work within twenty-four (24) hours of notification to make such correction, unless a longer period of time is allowed by the Town Engineer or his designated agent. Work that has been completed and from which equipment and material have been removed will be subject to the same conditions as those cited in the foregoing paragraph expect that at least 5 days shall elapse before the permittee shall be required to commence work. If the permittee fails to comply with the requirements of this section, the Town Engineer may cause such work to be done and the permittee shall be liable for the full expense of such work, such expense to be paid within thirty (30) days of billing.

If, in the opinion of the Town Engineer or his designated agent, any conditions resulting from activities of the permittee presents a hazard, the permittee will be ordered to immediately eliminate the hazard. If the permittee cannot be contacted, or if the hazard requires correction before the permittee could be expected to respond, the town may take corrective action, with the permittee liable for the costs thereof.

If the permittee fails to comply with the requirements of this section, the Town Engineer or his designated agent may cause such work to be done by town forces or others, and the permittee shall be liable for the full expense of such work.

All expenses incurred by the town as provided above shall be reimbursed by the permittee within thirty (30) days of billing.

N. Period of Responsibility

Unless the period of responsibility is waived in writing, in whole or in part by the Town Engineer, the permittee shall guarantee his work for a period of eighteen (18) months from the date of completion of said work, during which period insurance and bond as herein provided shall remain in full force and effect. Where the work consists of buried utilities or services thereto, the owner of the utility shall be permanently responsible for any settlement, cracking, or other failure of road surfaces, caused by the work performed and shall restore the roads where required by the Town Engineer.

Where failure of the completed work presents a hazard to the public, the permittee, or responsible utility company or agency, shall initiate necessary repairs or restoration within 24 hours of notice by the Town. Where a hazard is not immediate, unless otherwise allowed by the Town Engineer, restoration shall be commenced within five days of notice. Should the permittee or responsible utility fail to comply with the provision of this section, the Town Engineer may cause such work to be done, and the permittee and/or applicable utility shall be liable for the full expense of such work, such expense to be paid within thirty (30) days of billing.

O. Exceptions to Foregoing Rules

(1) The Town Engineer, or his designated agent, shall waive all requirements concerning licensing, bond, and insurance where work is to be performed by the employees of any governmental agency or public service company. Nothing herein contained however, shall be deemed to waive permits. Any such agency or company excepted under this paragraph shall be considered a licensed contractor for the purpose of this ordinance.

(2) None of the provisions of this ordinance shall apply to any work performed by the employees of any public service company in connection with the installation, maintenance, repair, replacement or relocation of utility poles owned by any public service company, nor to the erection of any temporary protective warning signs or devices.

(3) Nothing in these regulations shall be construed to prevent excavation or work related thereto by a public service company, or its authorized agent/contractor, in the event of an emergency.

SECTION II - EXCAVATING IN STREET

A. Permits - To Whom Issued

No person other than a contractor licensed under this ordinance, or governmental agency or public service company, shall be issued a permit to excavate in any town owned right of way.

B. Notification of Police and Fire Department

The permittee shall notify the Police Department and the Fire Department by calling the Police Department, twenty-four (24) hours prior to making any excavation which requires blocking more than fifty (50) percent of the width of the street. In the event that the excavation or other repair work planned, shall cause the traffic in the highways of the Town of Berlin to be reduced to one-way traffic, then in that event the permittee during working hours shall be required to have at least one or more flagmen, as determined by the Town Engineer, to control such traffic while one-way traffic is in effect.

C. Tunneling and Bracing

Excavation shall be made in open cut and no tunneling will be allowed except by special permission of the Town Engineer or his designated agent and under such additional conditions as he may impose. Trenches shall be braced and sheeted as required by Federal and State regulations or whenever, in the opinion of the Town Engineer, such bracing and sheeting are necessary.

D. Maximum Width of Cut

No permittee shall make a trench cut of over thirty (30) inches in width without first obtaining permission from the Town Engineer or his designated agent.

E. Public Safeguards

All excavated material shall be compactly piled and shall not interfere with public travel to any greater extent than necessary. Suitable barricades must be provided, and warning lights kept burning between sunset and sunrise and at any other times as may be required by Federal and State regulations, or by the Town Engineer or his designated agent. If the location and extent of work is such that a traffic director, in the opinion of the Town Engineer or his designated agent, is required, said director shall be provided by the Berlin Police Department at the expense of the permittee.

F. Backfill of Trenches

All trenches in hard surface or paved areas will be carefully backfilled, well compacted and then provided with a temporary surface consisting of four (4) inches of processed aggregate and capped with two (2) inches of bituminous concrete. Acceptable bank run gravel shall be used for all backfilling of trenches or other excavation subjected to vehicular traffic loadings. In areas where trenches or other excavations are not subject to vehicular traffic, excavated material may be used as backfill if, in the opinion of the Town Engineer, the material is suitable for such purpose.

All backfill shall be thoroughly compacted by means of mechanical rammers, vibrators or by pneumatic tampers, which equipment and method will be approved by the Town Engineer prior to backfilling. Compaction of trench backfill by puddling in lieu of mechanical compaction is permissible only upon specific approval of the Town Engineer. The trench surface will be maintained for a period of six (6) months, minimum, with a temporary patch of Conn. Highway Class 2 Bituminous concrete. In the event that Class 2 Bituminous concrete is not available Conn. Highway Class 5 mix shall be used. The bituminous material shall be placed and compacted to provide a smooth surface across the trench matching the adjoining road grade and elevation.

G. Maintenance

Upon completion of trench backfill and temporary treatment, the permittee will be required to maintain the trench for a minimum period of six (6) months. During this period the permittee shall inspect the trench at such regular intervals as may be necessary to maintain the trench in satisfactory condition. The permittee shall make necessary repairs to maintain the trench in satisfactory condition and in the event that the permittee fails to make such repairs the town may make such repairs as are deemed necessary and the permittee shall pay the cost of this work. Failure on the part of the town to give notice that repairs are needed shall not relieve the permittee of any of the duties set forth herein.

H. Pavement Replacement

At the completion of the six (6) month (minimum) maintenance period, the permittee shall replace the temporary pavement with a permanent base and surface course. This permanent patch will consist of a three (3) inch thick Class 2 bituminous concrete surface, placed in two (2) courses over a four (4) inch processed aggregate base. If the existing base and pavement are of a greater depth than the minimum specified, the permittee shall restore them to the actual depths encountered.

Prior to resurfacing, the permittee will square cut the existing pavement and base to a line six (6) inches from the excavated area and remove temporary surfacing and unsuitable base material from this area. Cut edges will be thoroughly coated with bituminous emulsion prior to paving to provide an adequate seal. Where the existing road surface consists of pavements installed within five (5) years prior to the date of the permit, the permanent surface restoration shall be by capping the full roadway width or by use of infra-red heating, as directed by the Town Engineer, so that no visible seam will result.

All placement of surfacing and base shall be to the satisfaction of the Engineer with regard to material and method of construction.

All improvements and ground surfaces such as lawns, sidewalks, curbs, merestones, signs, mailboxes, unpaved crosswalks, driveways, walls, fences, guard rails, and similar structures which are in any way disturbed by the work shall be replaced by the permittee to as good a condition as existed when the work began. The permittee shall supply new material to replace that which is lost or damaged. Curbs and sidewalks rebuilt or relaid by the permittee shall conform in all respects to the requirements and specifications of the town.

SECTION III - DRIVEWAYS, OTHER IMPROVEMENTS

A. Permits - To Whom Issued

Except as exempted below, no person other than a contractor licensed under this ordinance shall be issued a permit to construct, surface, or resurface a driveway, paved or otherwise, or to install, regrade, or repair lawns, walks and other surfaces, or to install or repair walls or fences within the public rights of way of the Town. Minor repairs and improvements by a property owner are exempt from licensing requirements; however, a permit shall be required.

B. Grade

After obtaining a permit and before commencing operation in the public right of way, a grade line shall be obtained from the Town Engineer or his designated agent.

C. Width

No residential driveway over twenty-five (25) feet exclusive of flares shall be constructed and no public or commercial driveway of over thirty (30) feet shall be constructed without prior approval from the Town Engineer.

D. Number and Separation Distance

Approval must be obtained from the Town Engineer to install more than two (2) driveways on one piece of property. No two (2) driveways either on the same or adjoining property shall be closer than eight (8) feet except where approved by the Town Engineer.

E. Location of Driveway

No driveway shall be authorized within twenty (20) feet of the nearest street line of an intersecting road, or within ten (10) feet of a public crosswalk. No driveway apron shall extend into the street further than the gutter line.

F. Waiver

Where a driveway, or other improvements within a public right of way, are to be permitted at other than the standard location or grade, prior to issuance of the permit, the property owner (s) shall sign a waiver form provided by the Town Engineer concerning the non-standard improvements. The waiver form shall be recorded in the Berlin Land Records.

G. Drainage

Where, in the opinion of the Town Engineer or his designated agent, roadside drainage conditions require a culvert under a proposed driveway, sidewalk, or other improvements, or requires modifications to an existing drainage system, such culvert and/or modifications shall be installed to town standards by the permittee where and as approved by the Town Engineer or his agent, at no cost to the Town.

SECTION IV - DRAINAGE (SPECIFICATIONS)**A. Connection to Town Drainage System**

Connections of foundation, cellar or basement drains, roof leaders, or any other surface or subsurface drains, to any storm sewer or drainage system presently under the jurisdiction of the town, or to any system which is proposed to be accepted by the town, shall be made only after approval is granted, and permit issued, by the town engineer or his designated agent.

Failure to obtain a permit prior to connecting private drains to a storm drainage system within a street or right-of-way proposed for acceptance by the town, shall cause said system, street and/or right-of-way to be unacceptable until such permits are obtained and related waivers provided to the satisfaction of the Town Engineer.

B. Permit - To Whom Issued

No person other than a contractor licensed under this ordinance shall be issued a permit to do any type of surface or cellar drainage work which connects into a storm drainage system maintained by the town either surface or underground.

C. Waiver of Claim

No permit shall be issued until the property owner shall have signed a waiver of claim on a form provided by the Town Engineer relieving the Town of all responsibility for any damage resulting from said connection and specifically relinquishing any claim said property owner may otherwise have against the Town caused by the backing up of surface water through said storm drain system. Said waiver shall be recorded in the Berlin land records.

D. Drainage System to be Used

No permits shall be issued to drain water into an open gutter if an underground drainage system exists in the street abutting the property to be drained, within one hundred (100) feet of said property.

E. Location of Connection

The location at which a permittee may connect into a public storm drain system and the details of the connection shall be subject to the approval of the Town Engineer. No work shall be commenced in any public right of way until such approval is granted. Where possible connections shall be made at catch basins or manholes either existing or, where the connection is larger than eight (8) inches in diameter to be installed by the permittee.

F. Street Excavation

If it is necessary to cut any street pavement to make a connection, the backfill and resurfacing will conform to all specifications and regulations as outlined in Section 2.

G. Existing Connections

Any private drain emptying into an open gutter where an underground storm drain system exists, upon order by the Town Engineer, shall be changed to connect into said underground system; and any property owner shall cease to drain into an open gutter after receiving written notice from the Town Engineer to discontinue using said open drain.

H. Foundation Cellar, and Roof Leader Connections to Storm Sewers

1. Application and approval

Connections to any storm sewers presently under the jurisdiction of the town, or any system which may fall under the jurisdiction of the town, shall be made only after application is made to and approval granted by the Town Engineer.

In the case of a new street, failure to make application to, and gain approval from the Town Engineer prior to making connections to the storm sewer, will make said street unacceptable for inclusion in the highway system of the town.

2. Design of the Outlet

The connection for any outlet shall be made into a structure or at the top of the storm sewer pipe. If the connection is made at the top of the pipe it shall be by means of a ninety (90) degree elbow.

3. Design of the Inlet

The inlet shall meet with the approval of the Town Engineer and shall conform with the following:

a. The inlet shall be constructed in such a manner that no foreign material, capable of causing an obstruction in the storm sewer, can pass through it.

b. A one-way valve, capable of preventing any liquid in the storm sewer from flowing into the building being drained, shall be installed in a suitable location in the inlet structure.

c. The Town Engineer may waive paragraph 3a and 3b in the case of a drain used solely for a foundation drain or roof leaders.

I. Noncompliance of Property Owner

Any person who shall make any connection into the Town drainage system, or to a system proposed to be accepted by the town, without a permit, shall be in violation of this ordinance. Any connection made not in compliance with the terms of this ordinance shall be corrected within ten (10) days after receiving written notice ordering such correction from the Town Engineer. If such correction is not made within ten (10) days of notification, the change may be made by the Town Highway Department and the expense shall be and remain until paid in full with interest at the rate of one and one-half per cent per month (1½% per month); a lien upon the property to be enforced and collected as other liens of the Town, provided the Executive Board of the Town of Berlin shall cause a Certificate of Lien to be recorded in the Town Clerk's office within sixty (60) days after the determination of said expense.

SECTION V - MOVING BUILDINGS AND OTHER STRUCTURES OVER A PUBLIC RIGHT OF WAY

A. Permits - To Whom Issued

No person other than a contractor licensed under this ordinance, shall be issued a permit to move a building or structure weighing more than 2,000 pounds over a public right of way. Said contractor shall be an approved contractor regularly engaged in the business of moving buildings and structures.

B. Responsibility

The moving contractor will be responsible for all damages to street pavement, curbs, gutters, drains, culverts, traffic signs, guard rails, bridge structures and any other town owned property in the public right of way, caused by such moving. Any such damage shall be repaired or replaced, work therein to commence within twenty-four (24) hours from the time of damage and to be prosecuted expeditiously. If the Town Engineer so deems it necessary in the interest of public safety, the repair work shall be commenced before said twenty-four (24) hours. Any repair work not commenced within the time limit or not diligently pursued may be completed by the town and the contractor shall be liable for the entire cost.

C. Trees

Any trees in the public right of way that must be removed or trimmed to make way for the building or structure shall be removed or trimmed in accordance with the instructions outlined in Section VI.

D. Removal of Public Property

The Superintendent of the Highway Department shall be notified a minimum of forty-eight (48) hours in advance of moving said structure in the event it becomes necessary to remove any public property and the work of removal of any public property shall be performed by the Highway Department of the town and the entire expense of the same shall be paid by the contractor.

E. Whom Notified

The Fire Department shall be notified through the Chief, or his authorized representative, of the particular fire zone within which the move is taking place at least forty-eight (48) hours before the contemplated removal. If a traffic director is required he shall be provided by the Berlin Police Department at the expense of the contractor.

F. On Highway at Night

No building or structure being moved shall be left on the street overnight except in an extreme emergency and then only with the permission of the Town Engineer and under such conditions as he may impose.

SECTION VI - REMOVAL OF TREES

A. Permits - To Whom Issued

No person other than a licensed contractor shall be issued a permit to remove or trim trees in any public right of way. Said contractor shall be an approved contractor regularly engaged in the business of removing or trimming trees. Trees may be removed or trimmed by the Highway Department of the town without a permit. No permit shall be required by any

property owner to do any minor trimming of any trees abutting his property provided he first secures permission of the Tree Warden, or his designated agent.

B. Responsibility

No tree in any public way shall be removed or trimmed unless approved by the Tree Warden, or his designated agent. The Tree Warden, or his designated agent, at that time will also decide whether such work will be at the expense of the town or at the expense of any individual or company requesting such work. In general, any trees removed or trimmed for public safety or due to the condition of the tree will be at the expense of the town whereas trees removed or trimmed for the convenience of individuals or companies will be at the expense of that individual or company. The Tree Warden, or his designated agent, shall determine whether the Town Highway Department or a licensed contractor shall do the work.

C. Public Safeguards

All possible precautions shall be taken to protect the public from harm during operations under this section, particularly, but not limited to, in the placing of warning signs during the day and the use of lights on fallen sections lying in the public way at night.

D. Disposition of Trees, Limbs and Branches

Any tree cut in the public way whether by licensed contractor or Town Highway Department may be disposed of in the Town Dump. Elm trees having dutch elm disease must be disposed of according to the regulations established by State Statutes.

E. Exemptions

Public service companies or their employees shall be governed by appropriate sections of Chapter 451 of the General Statutes of the State of Connecticut, 1958 Revision, as amended and are specifically exempt from the provisions of this section.

SECTION VII - SIDEWALKS

A. Permits - To Whom Issued

No person other than a contractor licensed under this ordinance shall be issued a permit to construct or repair a sidewalk within the public rights of way in and out of the town, except nothing herein shall prohibit a property owner from making a minor or temporary repairs.

B. Specifications

After obtaining a permit and before commencing operations, specifications shall be obtained from the Town Engineer, or his designated agent, and all work must be performed in strict conformity to these specifications, which shall set forth the location, type of materials, width and thickness of the sidewalk and method of construction.

C. Grade

After obtaining a permit and before commencing operations in the public right of way, a grade line shall be obtained from or approved by the Town Engineer or his designated agent.

D. Inspection and Supervision

All phases of the work involved in the construction or repair of the sidewalk shall be subject to the inspection and supervision of the Town Engineer, or his designated agent. Each stage of the construction must be inspected before the next stage is started.

SECTION VIII - SPECIFICATIONS

All materials, methods of construction, and details of structures and appurtenances will be in compliance, as determined by the Town Engineer, with the following:

1. State of Connecticut Department of Transportation standard specifications for roads, bridges and incidental construction as from time to time amended, and/or
2. Town specifications on file in the office of the Town Engineer.

SECTION IX - PENALTIES

Any individual, firm or corporation who violates any provision of this ordinance shall be fined not more than One Hundred dollars, (\$100.00) and each day that the violation exists or continues shall be deemed a separate offense.

SECTION X - SEPARABILITY

If any provision of this ordinance or its application to any person, situation or circumstance is held invalid, such invalidity shall not affect any other provision or application of the same.

SECTION XI - REPEAL

Upon adoption of this ordinance the following are hereby repealed:
A. certain ordinance entitled "Street Excavation Ordinance", No. 2-5, adopted at Town Meeting, December 5, 1955; A certain ordinance entitled "An Ordinance Concerning Public Rights of Way", No. 2-19, adopted at Town Meeting, February 20, 1961; A certain ordinance entitled "An Amendment to the Ordinance entitled "An Ordinance Concerning Public Rights of Way", No. 1-71, adopted at Town Meeting, February 18, 1971; A certain ordinance entitled "An Ordinance Concerning Public Rights of Way", No. 1-78, adopted at Town Meeting, April 17, 1978; A certain ordinance entitled "Amendment of Ordinance 2-19 entitled "An Ordinance Concerning Public Rights of Way", No. 1-80, adopted at Town Meeting January 30, 1980.

This Ordinance shall be effective fifteen (15) days after publication as provided by Section 7-157 of the Connecticut General Statutes, Revision of 1958, as amended.

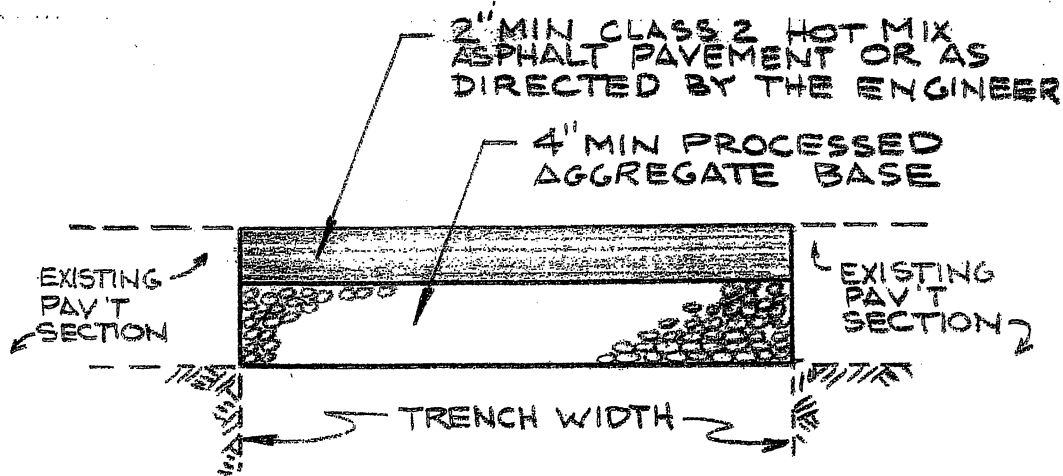
Adopted at Town Meeting August 27, 1991.
Effective date September 15, 1991.

Joanne G. Ward, CMC, *Town Clerk*

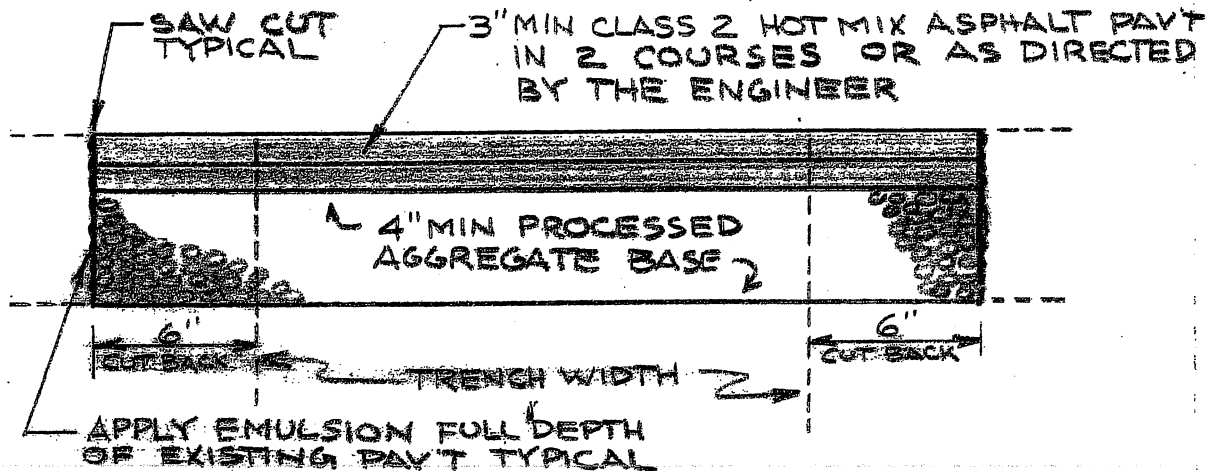
List of Drawings

<u>Drwg</u> <u>No.</u>	<u>Description</u>
1	Pavement Repair Detail
2a	Concrete Sidewalk Detail
2b	Bituminous Driveway
3a	Concrete Driveway Section
3b	Rear Lot Driveway Detail
4	Storm Drain Trench Detail (RCP & ACCMP)
5	Storm Drain Trench Detail (PVC)
6a	Sanitary Sewer Trench Detail (PVC)
6b	Standard Manhole Cleanout
7	Sanitary Sewer Trench Detail (DIP)
8	Water Main Trench Detail (DIP)
9	Underdrain Trench Detail
10	Standard Catch Basin Detail
11	Ditch Details
12	Storm Manhole Detail
13	* Detail at Flared End
14	* Concrete Anchors for Water Mains
15	* Hydrant Detail
16	* Common Trench Detail (Water & Sewer)
17	* Sanitary Sewer Manhole Detail
18	* Typical Section Local Streets
19	* Typical Section Collector Streets
20	* Typical Section Major Streets
21	* Concrete Curb Detail
22	Monolithic Concrete Curb
23	Extruded Curb

*Added Details 11/30/2000



TEMPORARY PAV'T. REPAIR



PERMANENT PAV'T REPAIR

NOTES:

- 1 SEE SECTION II PAR. F, G, H OF THE TOWN OF BERLIN PUBLIC RIGHT OF WAY ORDINANCE 6-91 FOR PAVING PROCEDURE
- 2 ASPHALT AND BASE DEPTHS ARE MINIMUM. ACTUAL DEPTHS SHALL BE DETERMINED BY THE EXISTING ROAD SECTION
- 3 ALL BASES SHALL BE PROPERLY COMPACTED

PAVEMENT REPAIR DETAILS

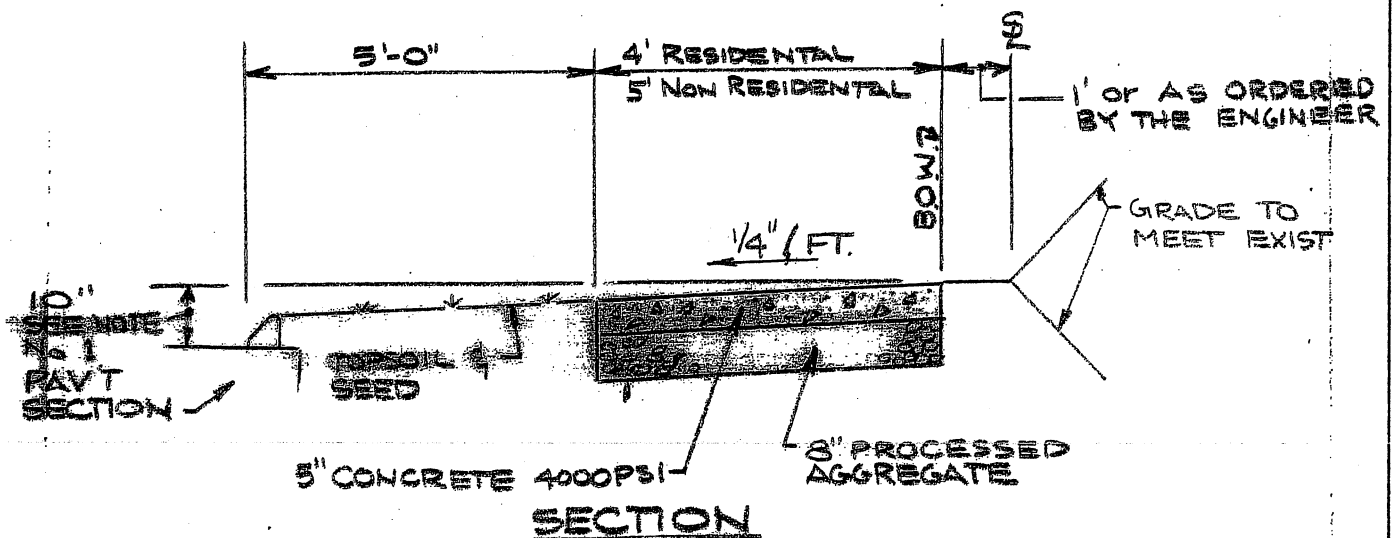
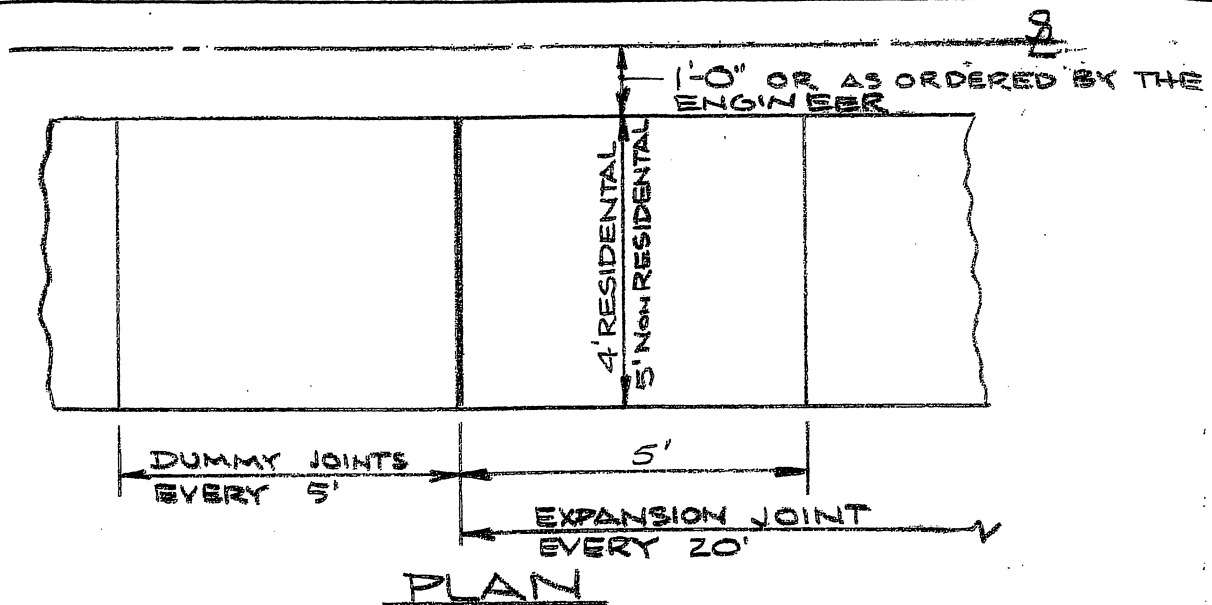
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO. 1



CONCRETE SIDEWALK DETAIL

NOTES

- 1 STANDARD SLOPE FROM B.O.W. TO FACE OF CURB SHALL BE 10" UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- 2 PRIOR TO POURING CONCRETE THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DEPT. TO INSPECT THE BASE MATERIAL

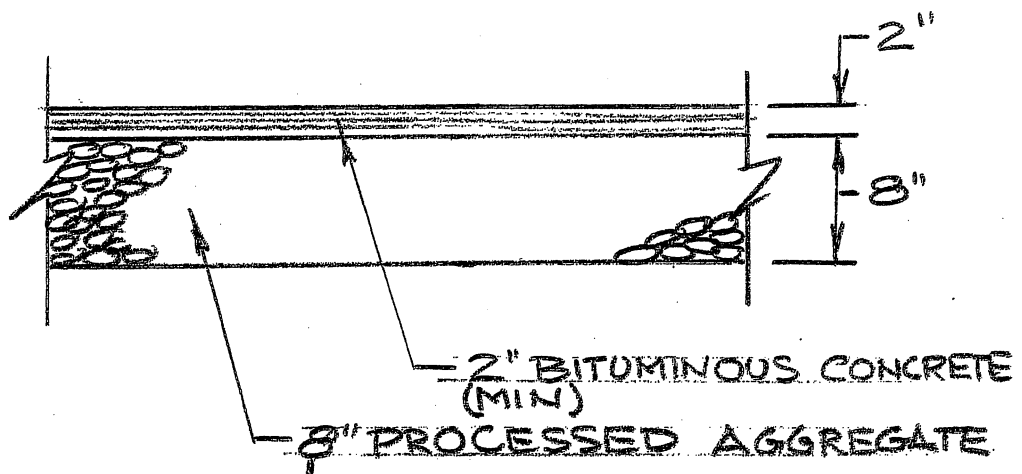
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO.: 2a



NOTE

STANDARD DRIVEWAY RADIUS = 5' MIN

BITUMINOUS DRIVEWAY SECTION

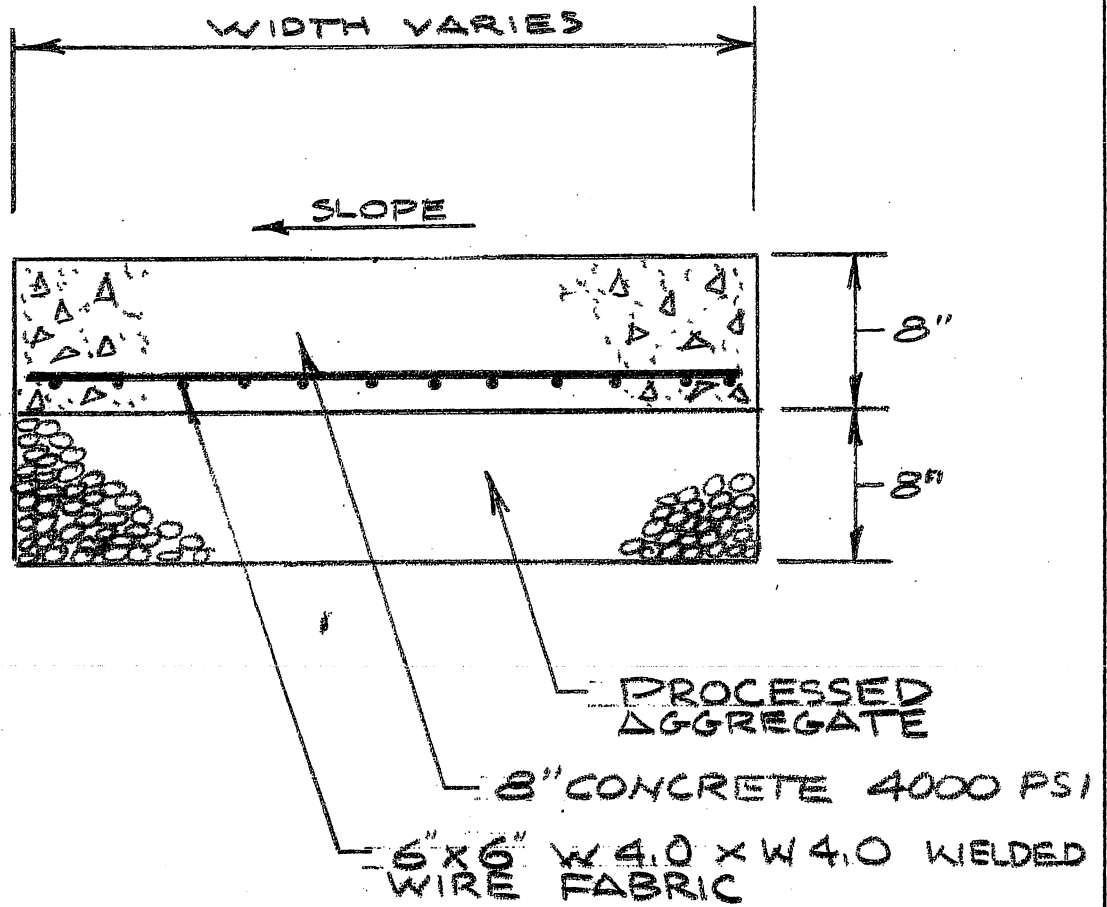
Engineering Department
Town Of Berlin
Berlin, Connecticut

Scale: NONE

Date: APRIL 2 2007

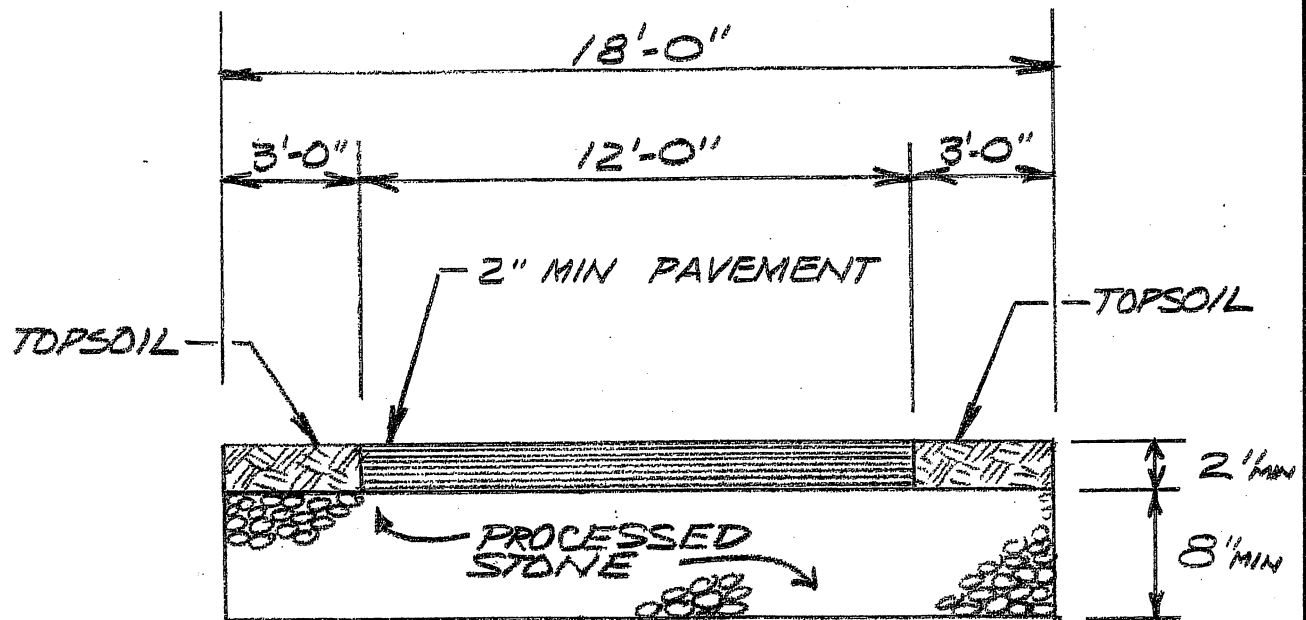
Approved By:

Drawing No.: 26



CONCRETE DRIVEWAY SECTION

ENGINEERING DEPARTMENT TOWN OF BERLIN BERLIN, CONNECTICUT	
SCALE: NO SCALE	APPROVED:
DATE: JAN 1993	DWG. NO.: 3a

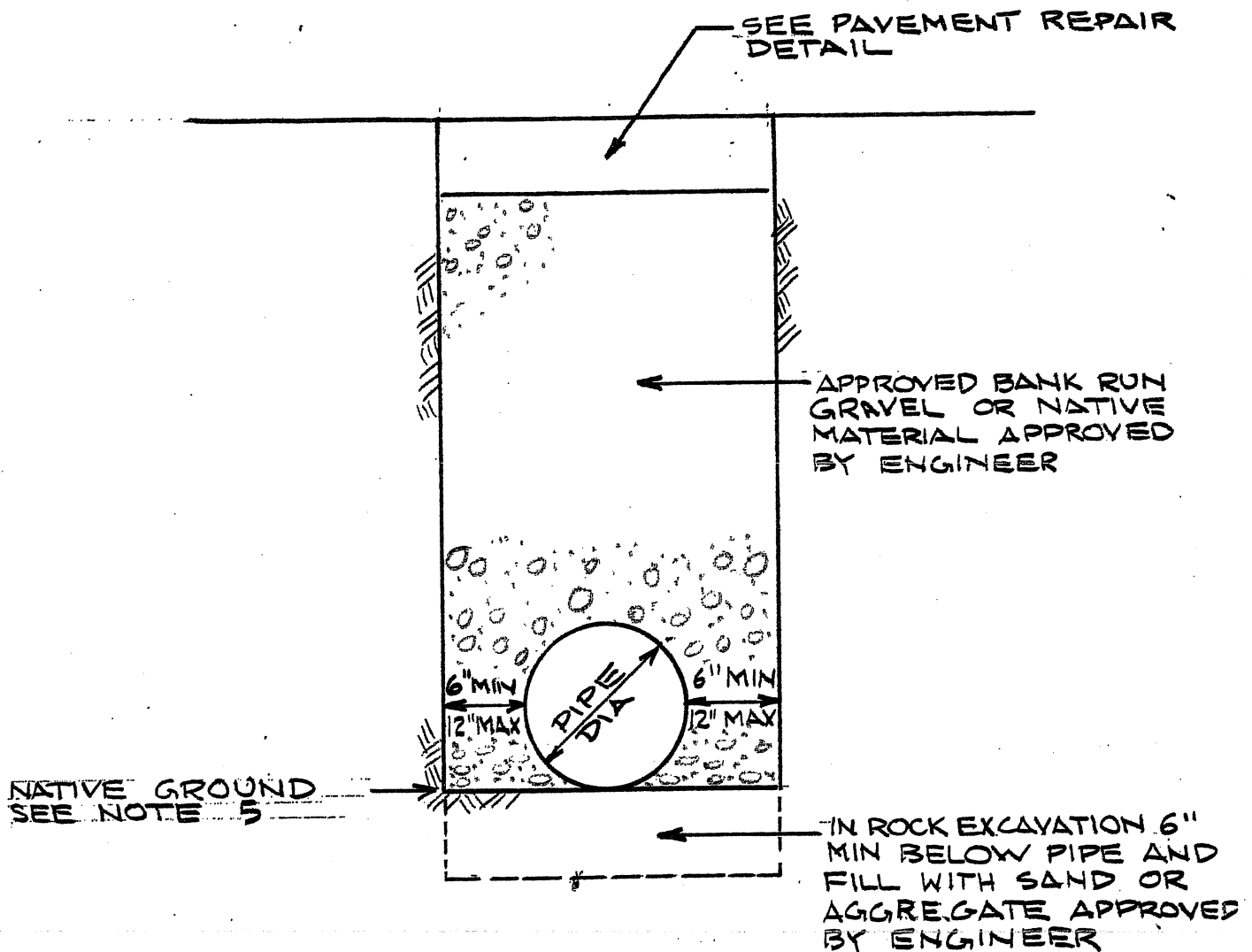


REAR LOT DRIVEWAY DETAIL

Engineering Department
Town Of Berlin
Berlin, Connecticut

Scale:
Date:

Approved By:
Drawing No.: 3b



STORM DRAIN TRENCH DETAIL FOR RCP AND ACCMP

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER IN ROAD IS 2FT
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER

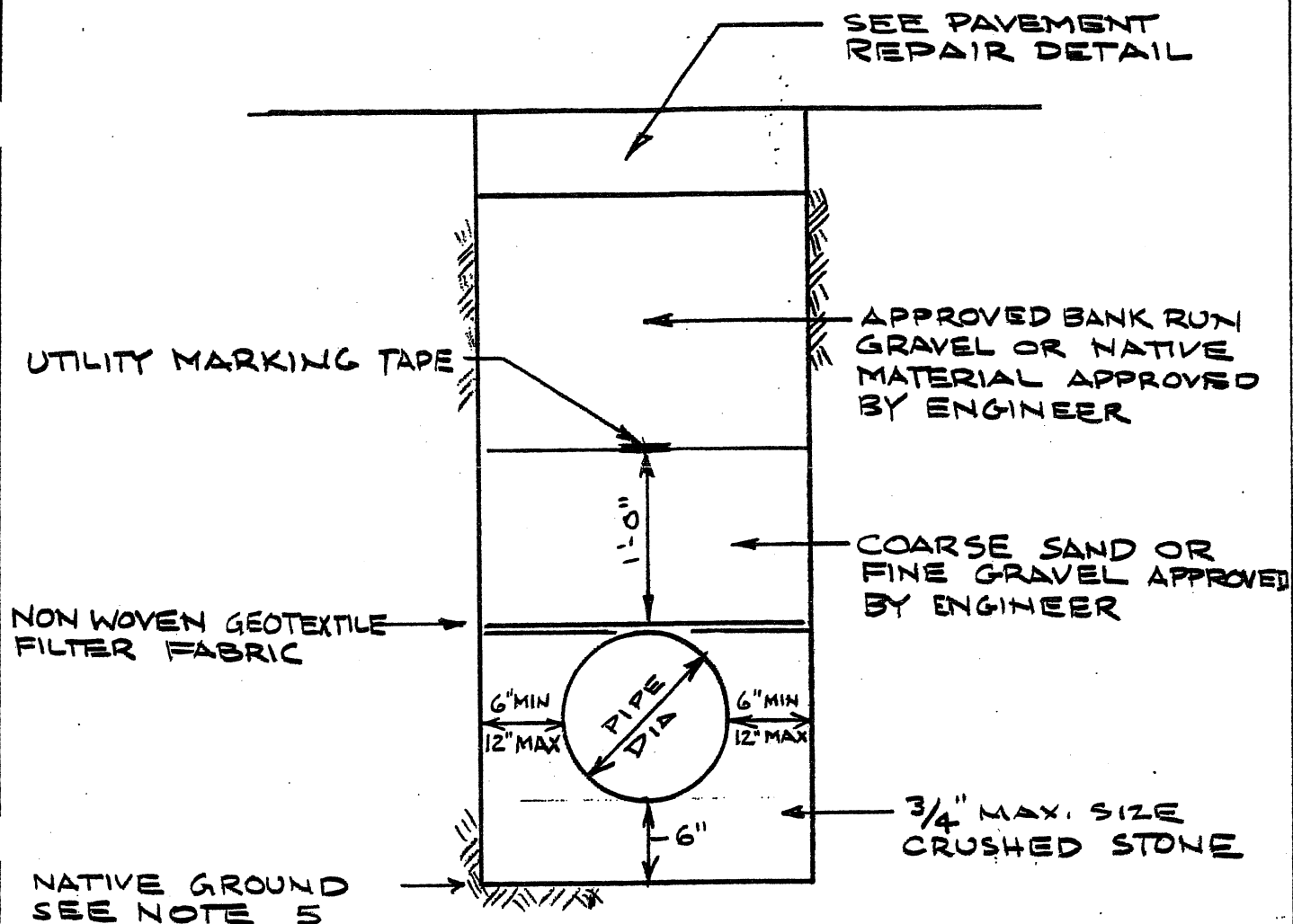
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO.: 4



STORM DRAIN TRENCH DETAIL FOR PVC & HDPE

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER IN ROAD IS 2FT
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER
- 6 PVC PIPE TO BE ASTM 3034, SDR 35 (15FT MAX DEPTH , OVER 15FT DEPTH AS REQUIRED BY THE ENGINEER

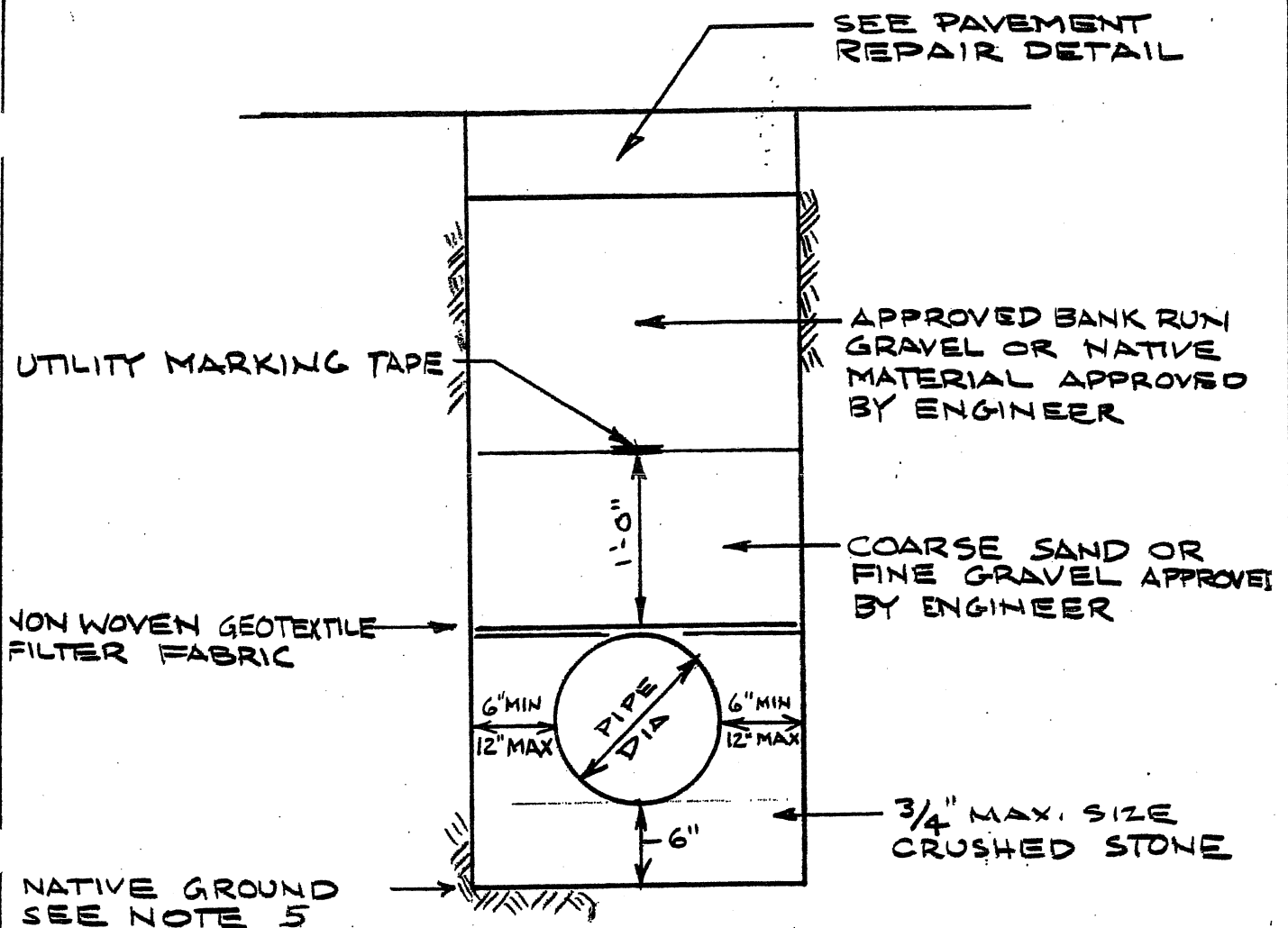
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO.: 5



SANITARY SEWER TRENCH DETAIL FOR PVC

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER IN ROAD IS 2FT
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER
- 6 PVC PIPE TO BE ASTM 3034, SDR 35 (15FT MAX DEPTH , OVER 15FT DEPTH AS REQUIRED BY THE ENGINEER

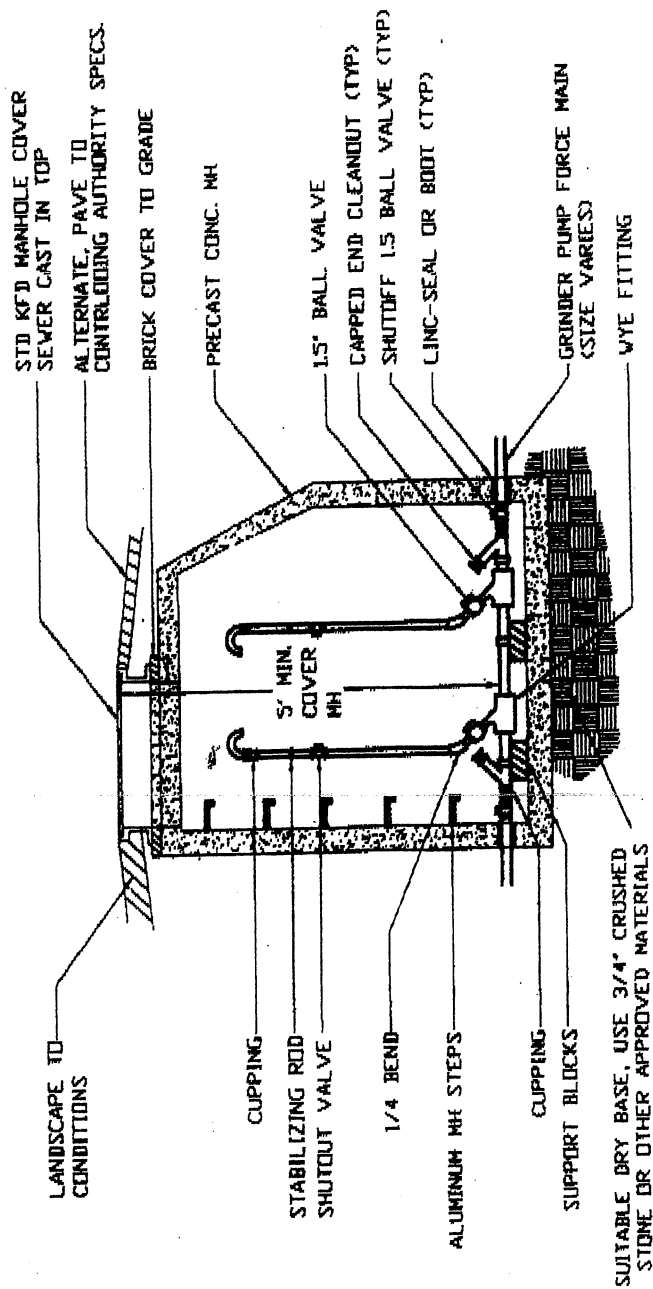
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

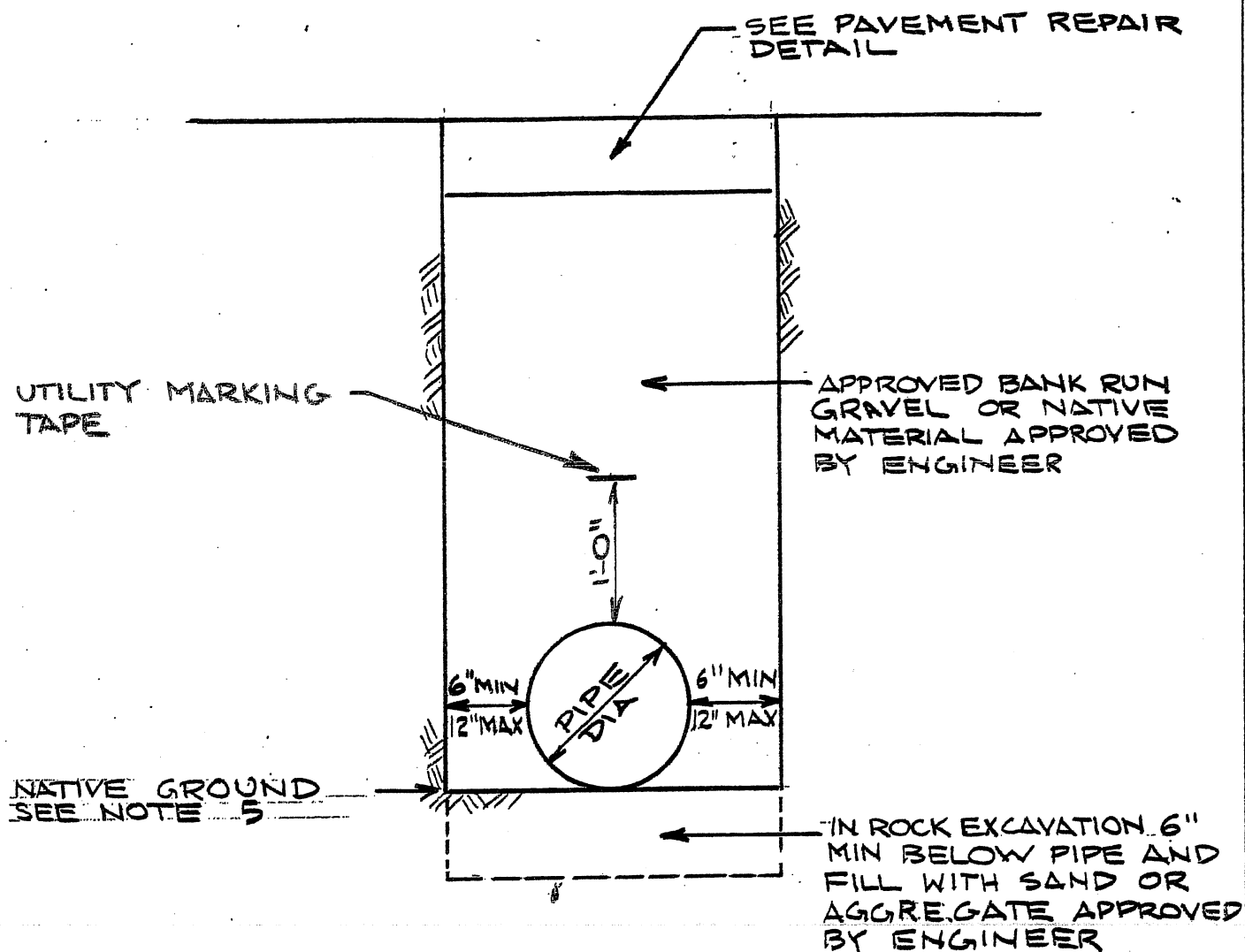
DATE: JAN 1993

DWG. NO. 62



Tapeing Tape

KENSINGTON FIRE DISTRICT
STANDARD FM CLEANOUT MANHOLE
Not to Scale



SANITARY SEWER TRENCH DETAIL FOR DUCTILE IRON PIPE

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER IN ROAD IS 2FT
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER
- 6 DIP PIPE TO BE ANSI A21.51 CL52 MIN

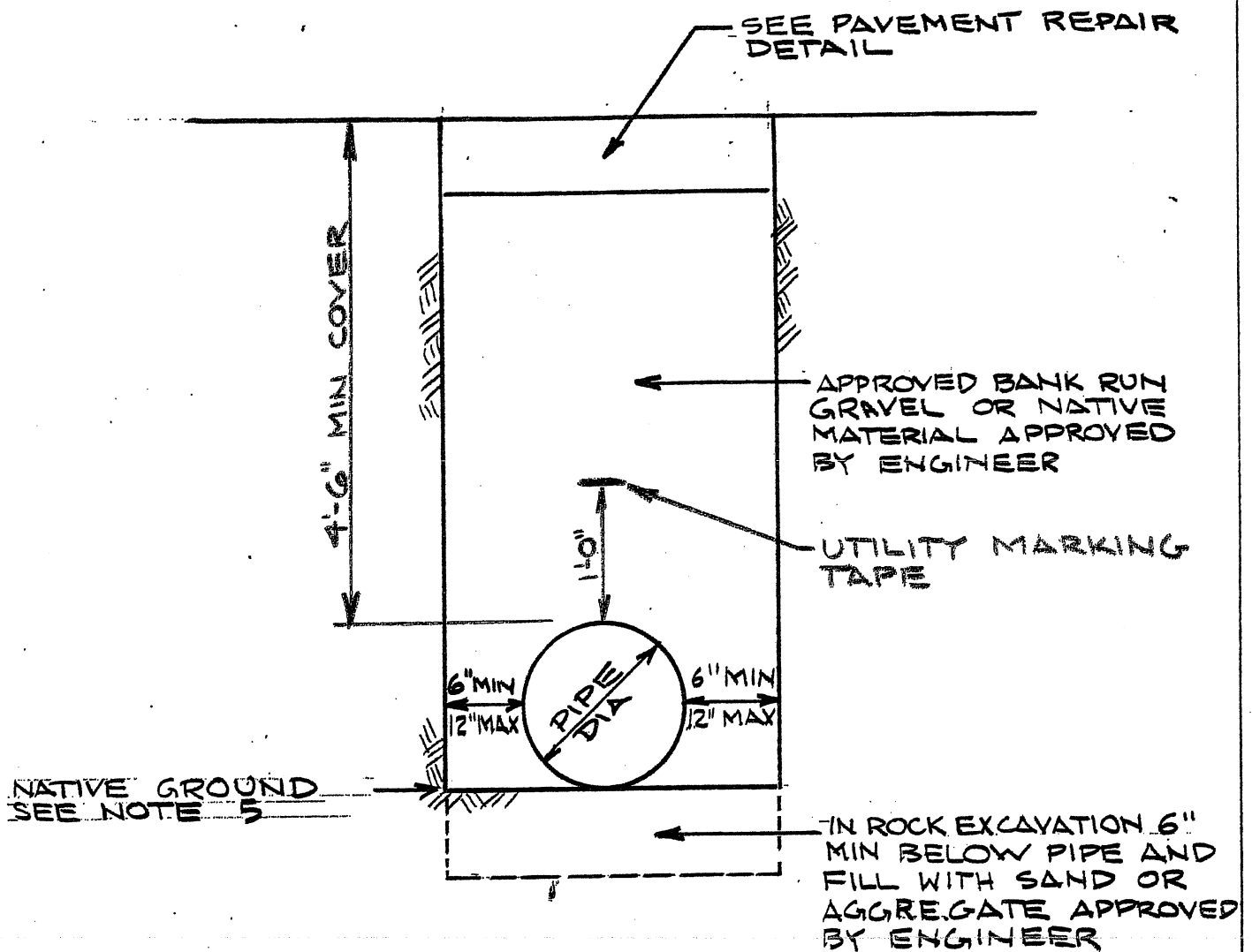
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO. 7



WATER MAIN TRENCH DETAIL FOR DUCTILE IRON PIPE

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER 4'-6"
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER
- 6 DIP PIPE TO BE ANSI A21.51 CL52 MIN

ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO.: 8

△	6-19-94	ADDED NOTE
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SEE PAVEMENT
REPAIR DETAIL

△
GEOTEXTILE FILTER
FABRIC

← 3/4" CRUSHED
STONE

NATIVE GROUND
SEE NOTE 5

← PERF. HOLES
ON BOTTOM

UNDERDRAIN TRENCH DETAIL

NOTES:

- 1 TRENCHES IN STABLE SOIL OVER 5FT DEEP SHALL BE REINFORCED BY APPROVED OSHA METHODS.
- 2 TRENCHES SHALL BE COMPACTED
- 3 TRENCHES IN PAVEMENT AREAS SHALL BE SAW CUT PRIOR TO EXCAVATION OR AS DIRECTED BY THE ENGINEER
- 4 MINIMUM DEPTH OF COVER IN ROAD IS 2FT
- 5 IF NATIVE GROUND IS NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A ACCEPTABLE DEPTH AND INSTALL MATERIALS AS APPROVED BY THE ENGINEER
- 6 PVC PIPE TO BE ASTM 3034, SDR 35 (15FT MAX DEPTH , OVER 15FT DEPTH AS REQUIRED BY THE ENGINEER

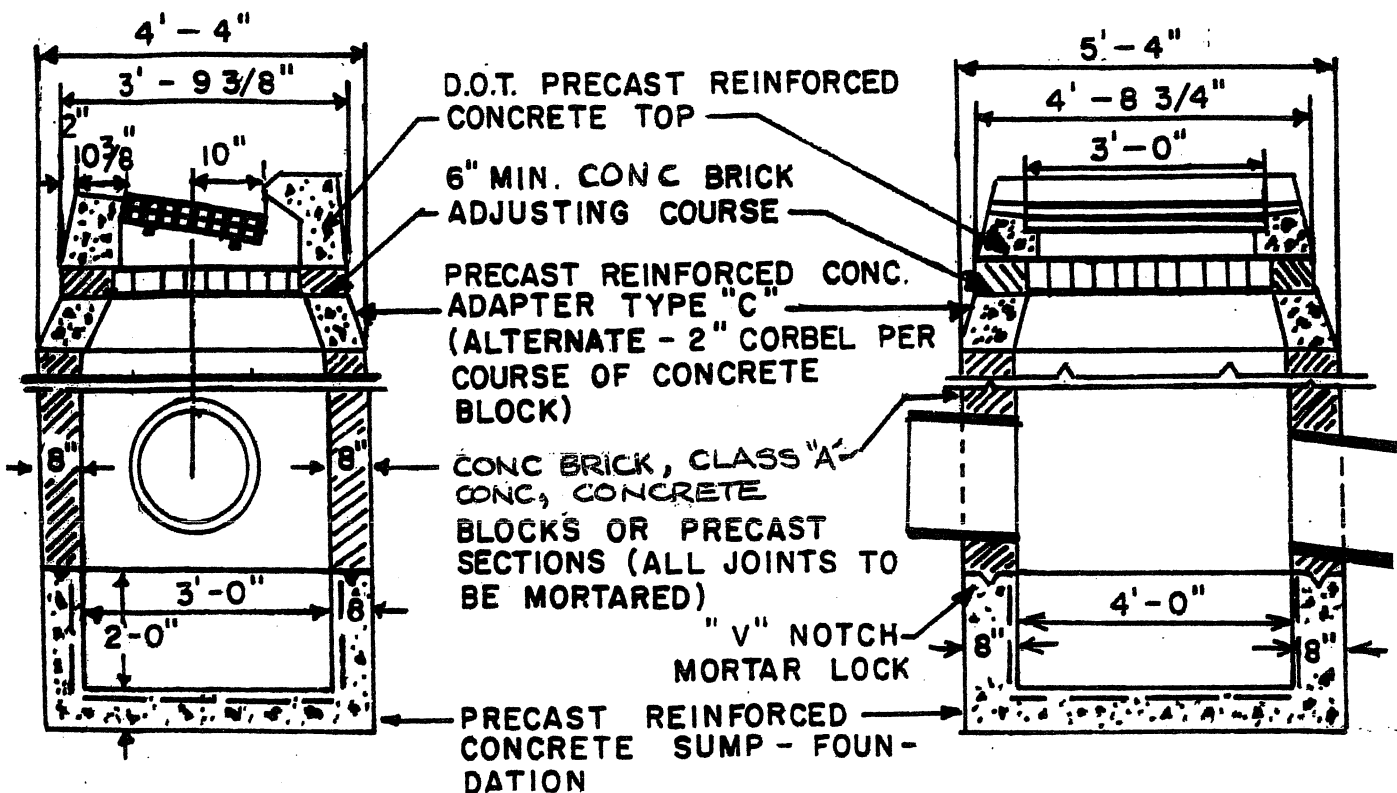
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1993

DWG. NO.: 2



STANDARD CATCH BASIN

SPECIFICATIONS

DROP INLET AND CATCH BASIN:

1. EXCAVATE TO REQUIRED GRADE OR DEEPER IF NECESSARY TO SATISFACTORY BEARING FOUNDATION. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, INSTALL COMPACTED GRAVEL OR CRUSHED STONE BASE AS DIRECTED BY ENGINEER.
2. PIPES TO EXTEND TO INSIDE FACE OF STRUCTURE WALLS AND TO BE CUT FLUSH WITH FACE OF WALL.
3. WHERE THE STRUCTURE IS OVER 8 FEET DEEP, WALL THICKNESS TO BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME.
4. STANDARD CURB TO PIPE CENTERLINE DIMENSIONS TO BE 10 INCHES, EXCEPT WHERE OTHERWISE ORDERED.
5. CONCRETE CATCH BASIN CURB TO BE SHAPED TO CONFORM TO ADJACENT CONCRETE OR BITUMINOUS CURBING, AS APPLICABLE.
6. WHERE PIPE SIZE IS GREATER THAN 24 INCH DIAMETER, STRUCTURES TO BE BUILT TO D.O.T. STANDARDS.

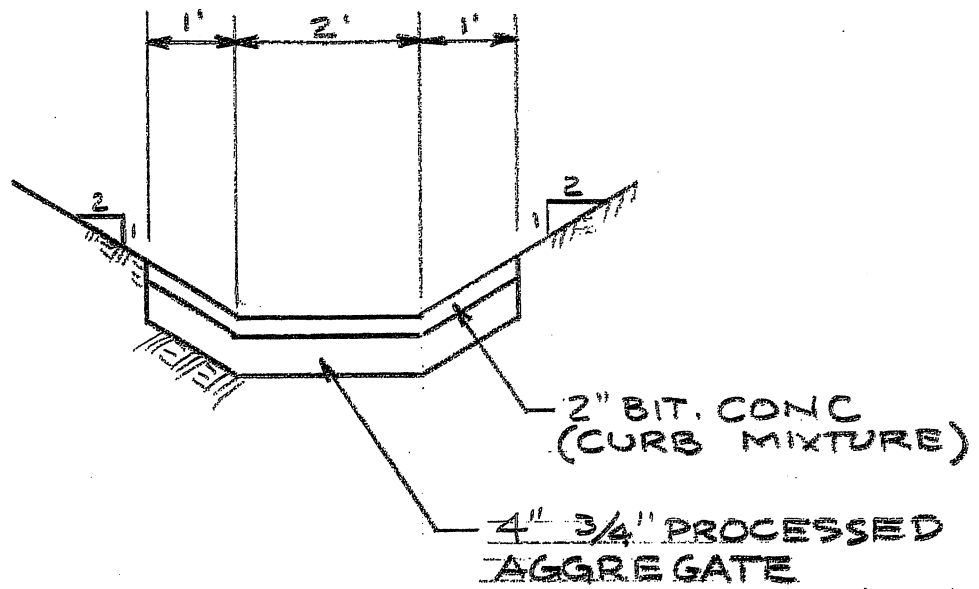
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

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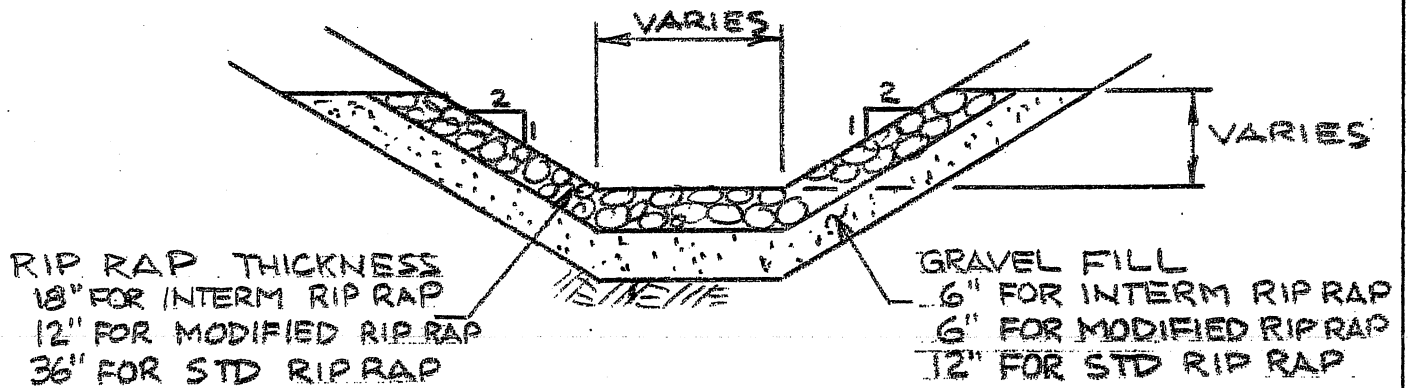
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DATE: 6-30-94

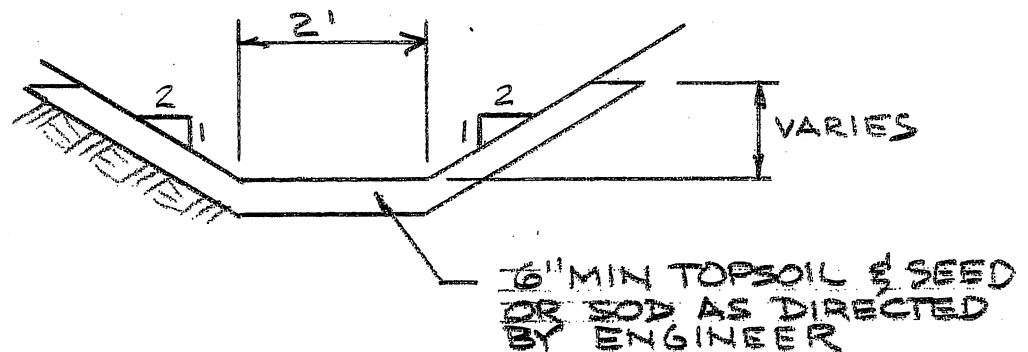
DWG. NO.: 10



PAVED DITCH



RIP-RAP DITCH



GRASS DITCH

DITCH DETAILS

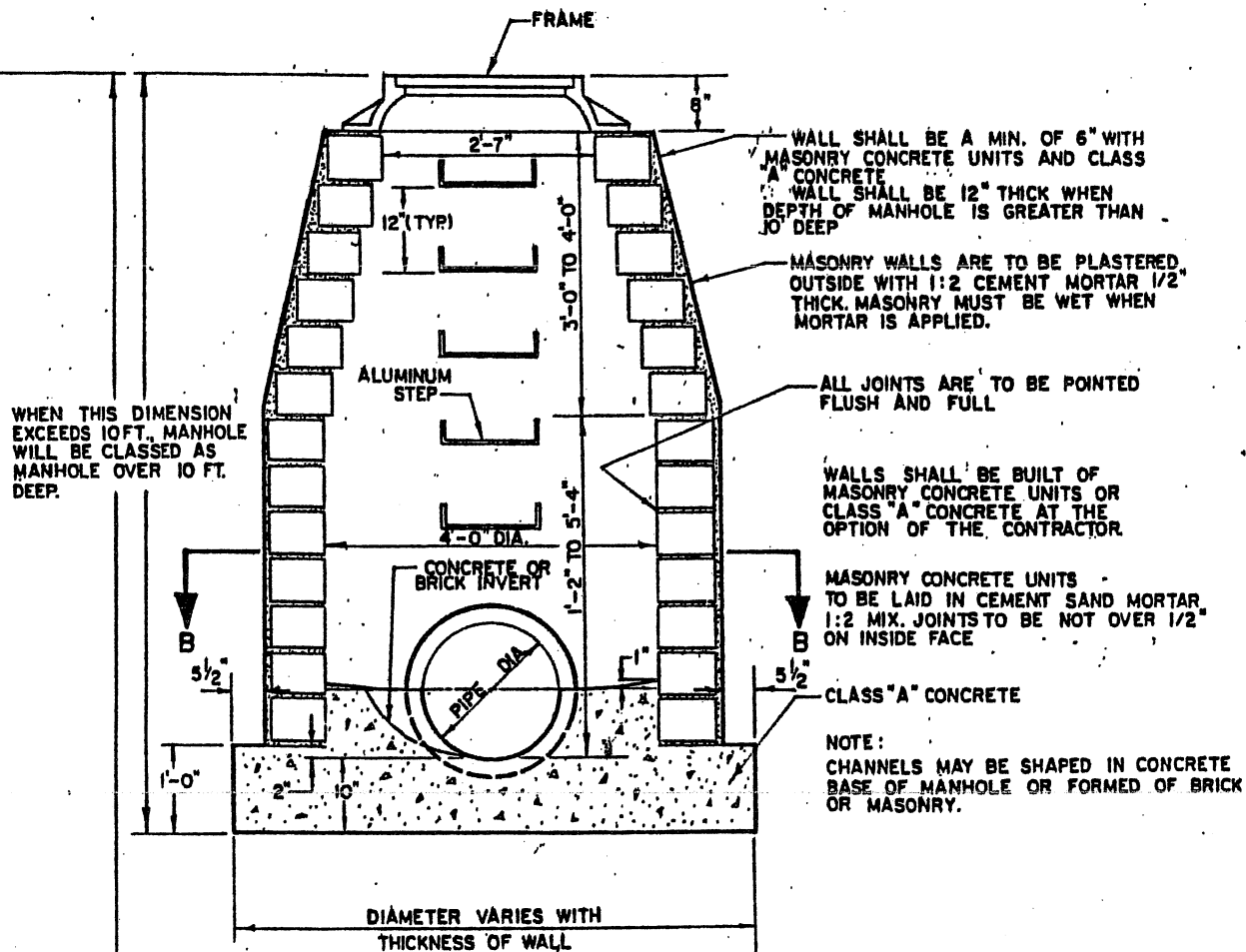
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: 6-30-94

DWG. NO.: 11



VERTICAL SECTION

MANHOLE

MASONRY CONCRETE UNITS
OR CLASS "A" CONCRETE

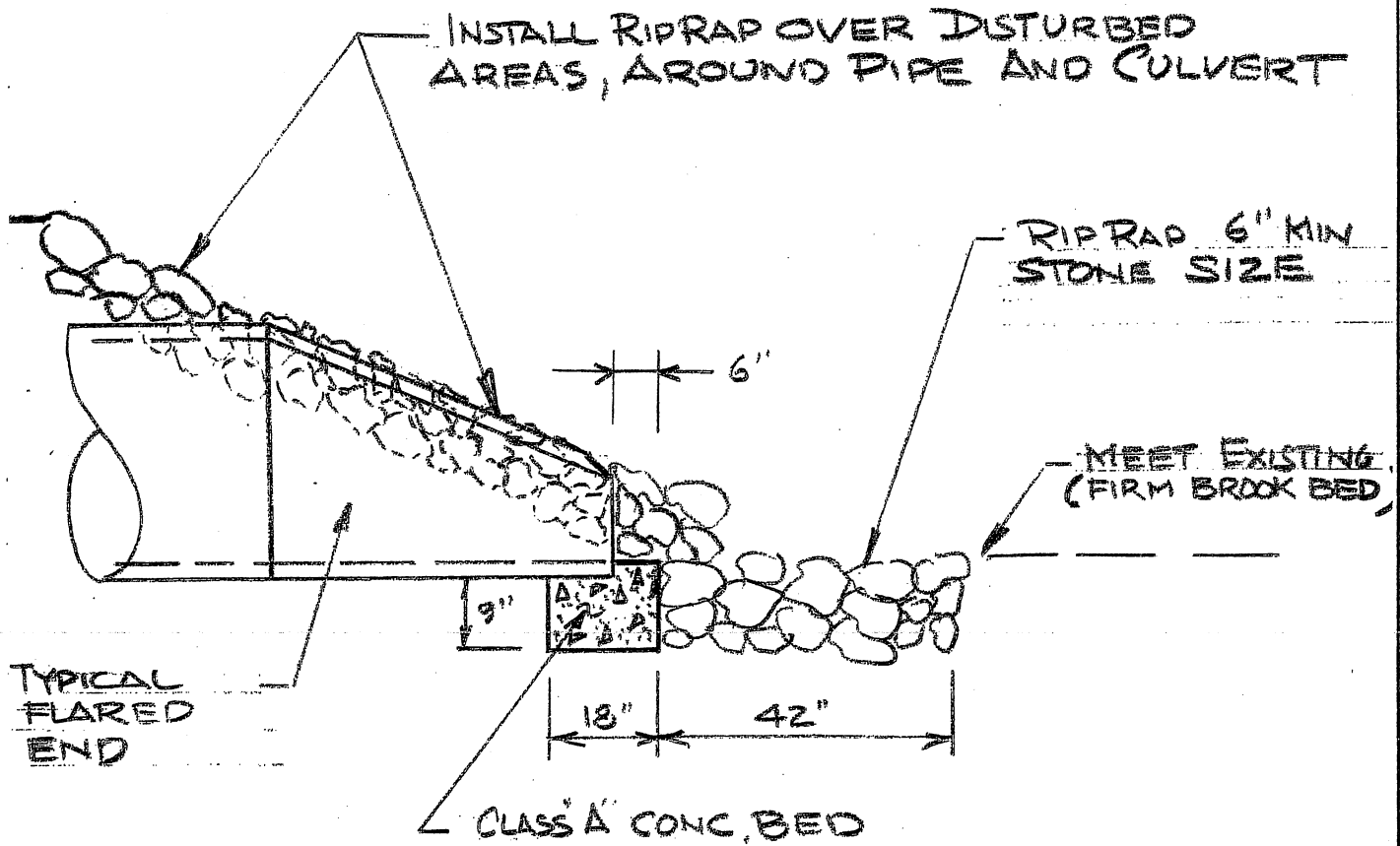
ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

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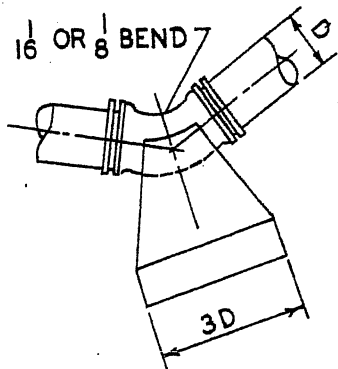
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DWG. NO.: 12

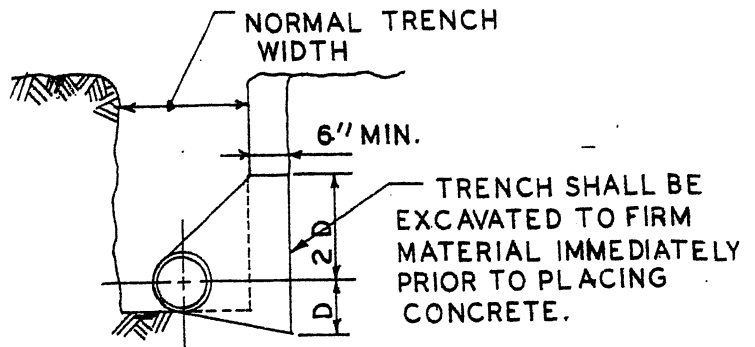


DETAIL AT FLARED END NO SCALE

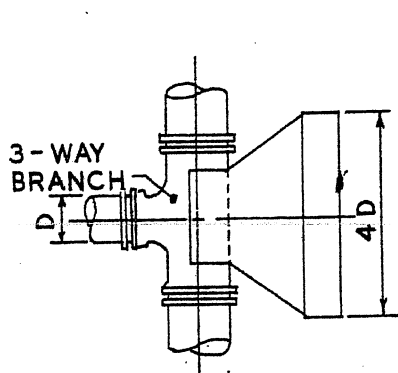
ENGINEERING DEPARTMENT TOWN OF BERLIN BERLIN, CONNECTICUT	
SCALE: NO SCALE	APPROVED:
DATE: FEB 11, 1998	DWG. NO. 13



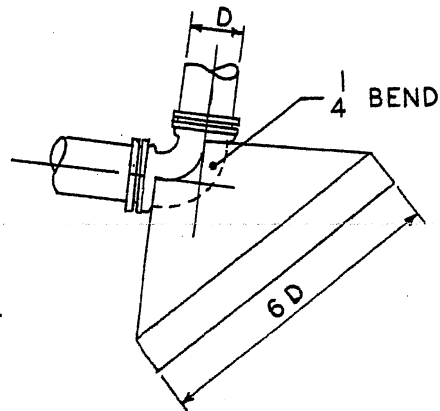
PLAN



SECTION



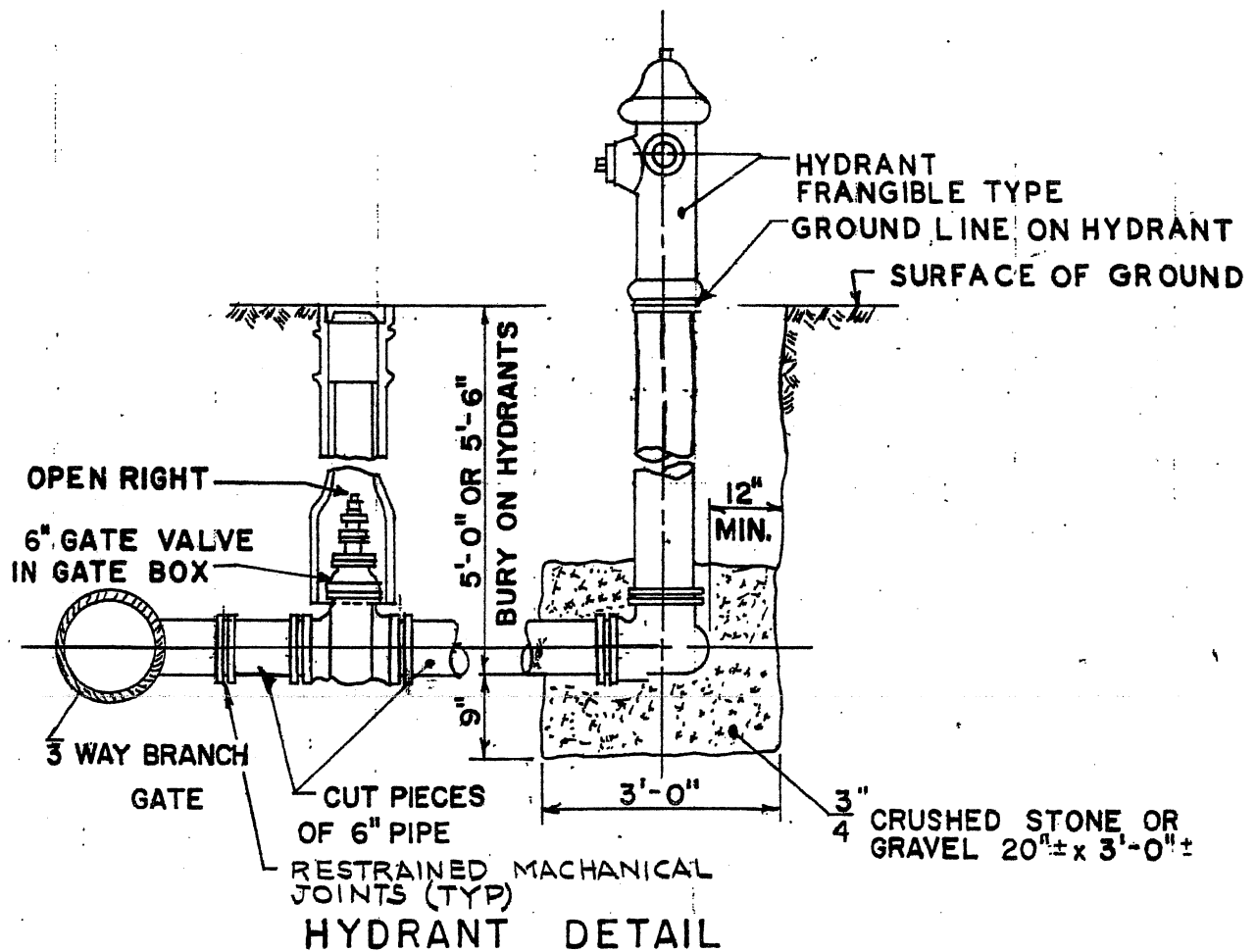
PLAN



PLAN

CONCRETE ANCHORS (18" AND LESS)

ENGINEERING DEPARTMENT TOWN OF BERLIN BERLIN, CONNECTICUT	
SCALE: NO SCALE	APPROVED: M. SEELYE
DATE: 2-28-92	DWG. NO.: 14



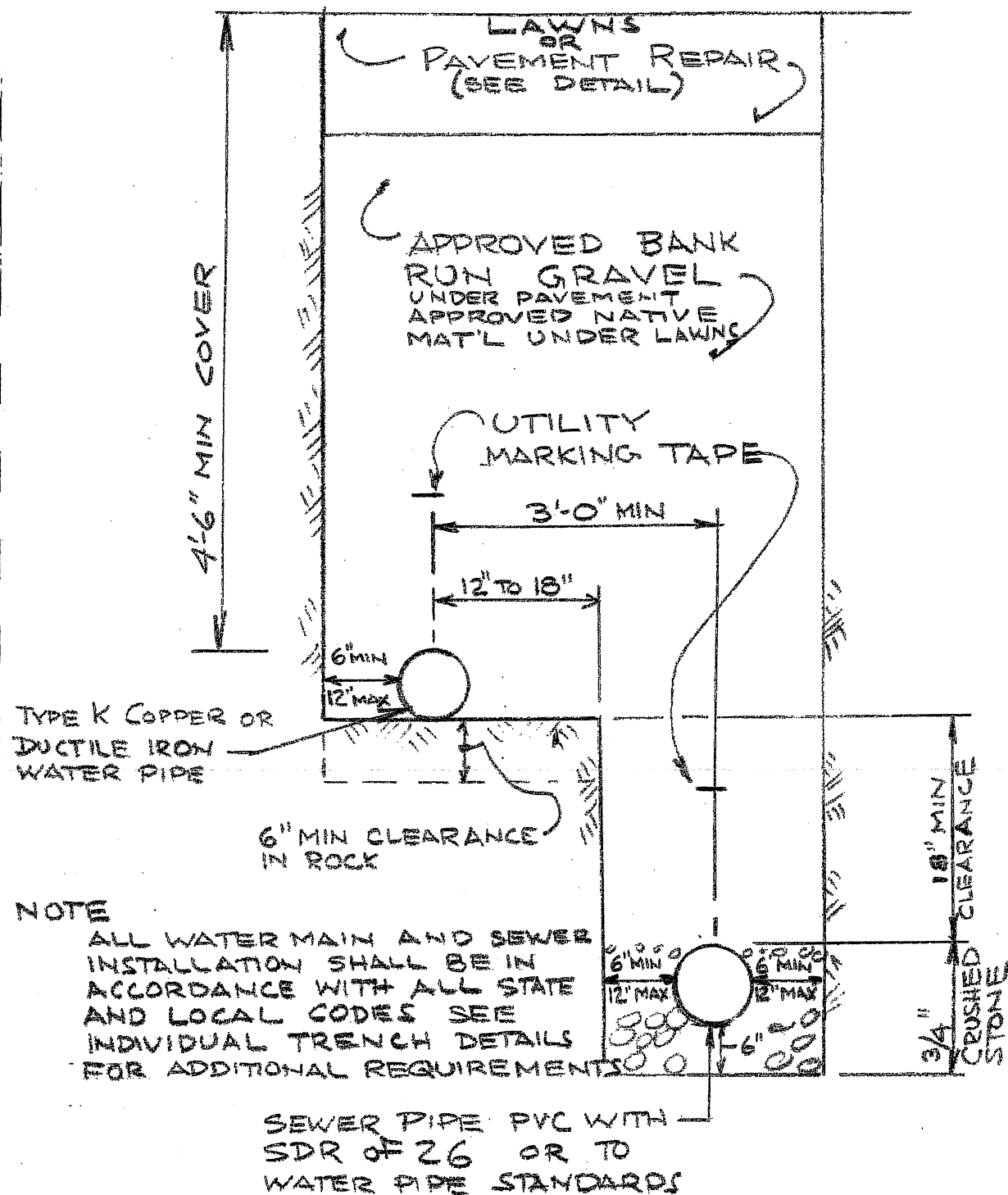
ENGINEERING DEPARTMENT
 TOWN OF BERLIN
 BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED: M. SEELYE

DATE: 2-28-92

DWG. NO.: 15



COMMON TRENCH DETAIL FOR WATER AND SEWER

ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE

APPROVED:

DATE: JAN 1995

DWG. NO. 16

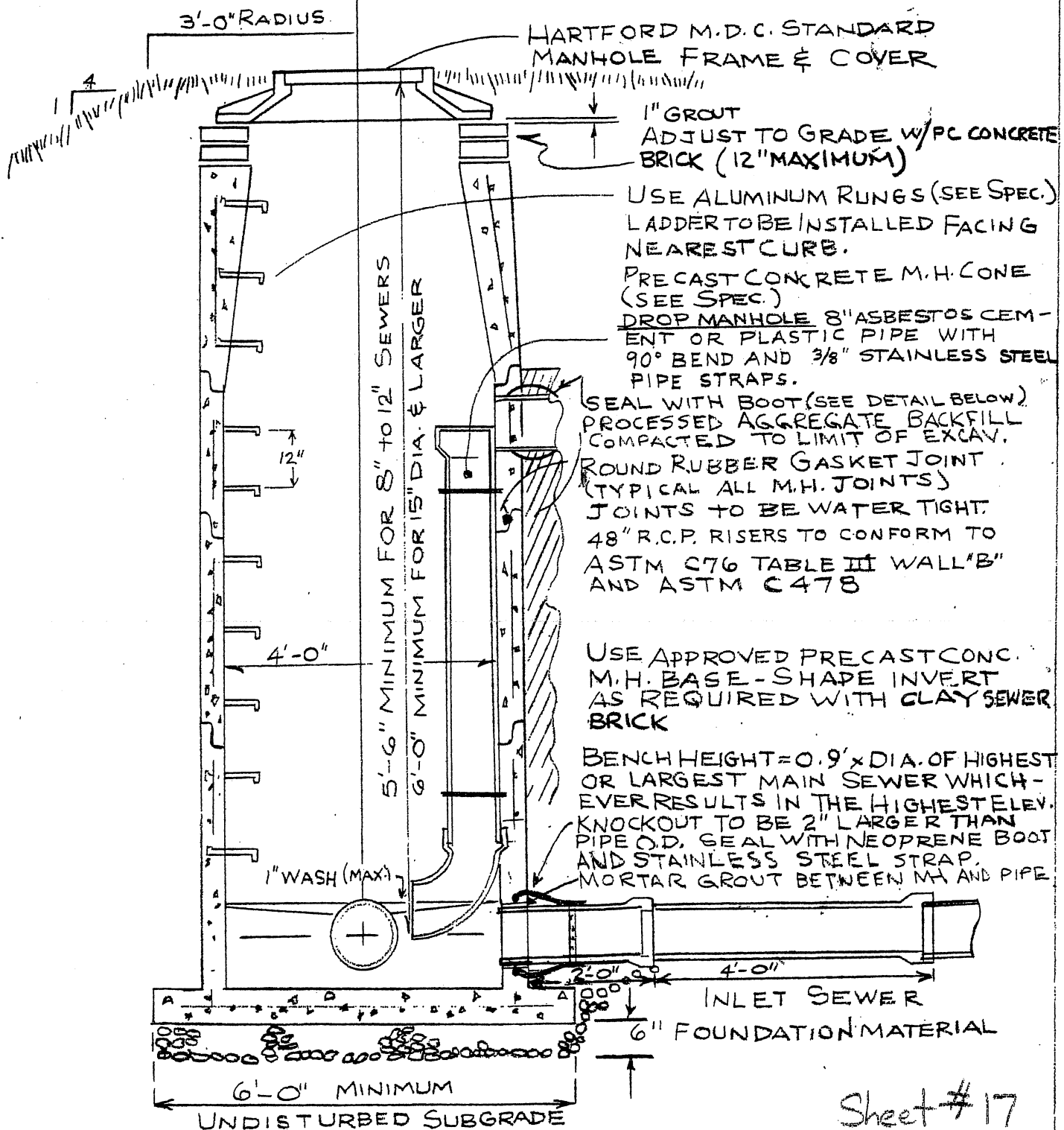
SPECIAL GRADING

1. SPECIAL GRADING MAY BE REQUIRED IN LOCATIONS WHERE M.H. COVER PROJECTS ABOVE ORIGINAL GROUND.

2. TOE OF SLOPE NOT TO EXTEND BEYOND EASEMENT LINES

SPECIAL GRADING SYMMETRICAL ABOUT $\frac{1}{2}$ OF M.H. COVER

NORMAL GRADING GRADE TO DRAIN AWAY FROM MANHOLE IF NOT LOCATED IN STREET.

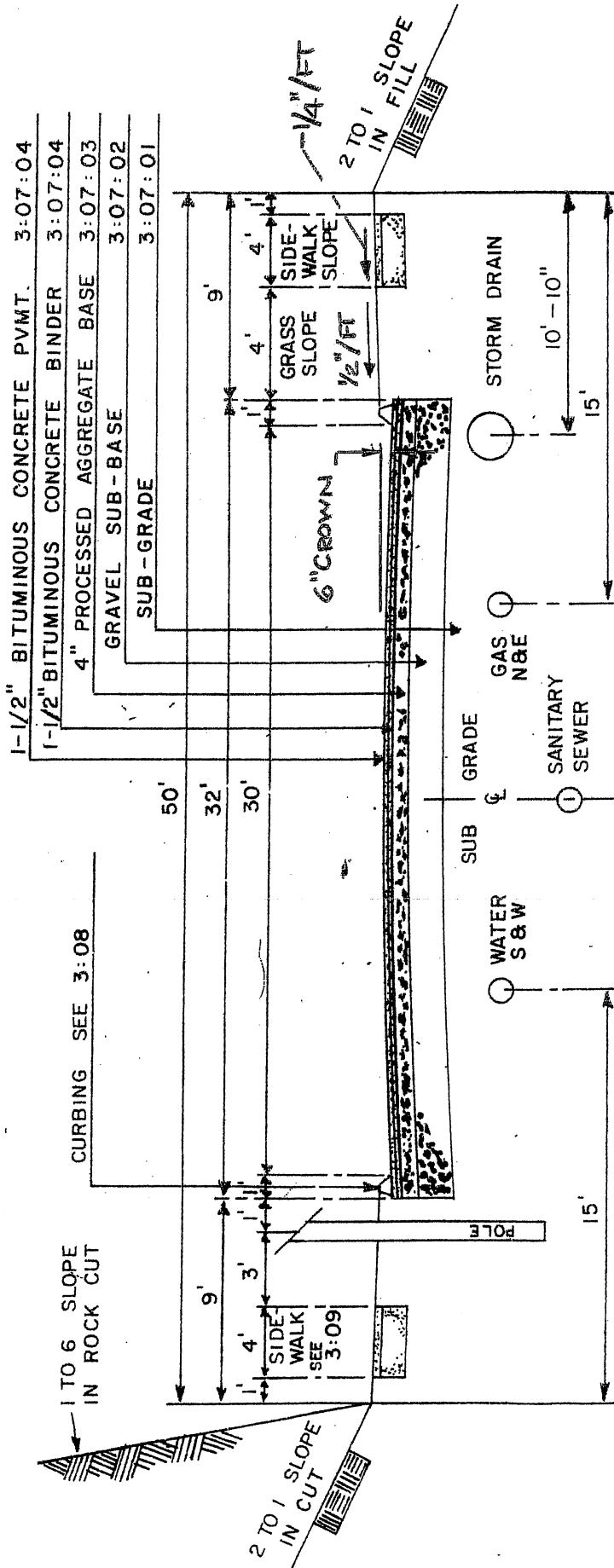


Sheet #17

NOTE: RESTORATION PAYMENT LIMITS TO BE SAME AS FOR TRENCH EXCAVATION, UNLESS SPECIAL GRADING IS ORDERED.

TOWN OF BERLIN
ENGINEERING DEPARTMENT
SANITARY SEWER MANHOLE
REDRAWN-FJM APPROVED M.S. DATE 12-29-70
REV. 1-18-84
REV 8-21-95

TYPICAL SECTION OF A LOCAL STREET (RESIDENTIAL)



REVISED APRIL 2 2007

ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE	APPROVED: A. SIMONIAN
DATE: JANUARY 1982	DWG. NO.:

APPROVED BY THE TOWN PLANNING COMMISSION

DATE _____ CHAIRMAN _____

1-1/2"	BITUMINOUS CONCRETE	PVMT.	3:07:04
1-1/2"	BITUMINOUS CONCRETE	BINDER	3:07:04
4"	PROCESSED AGGREGATE	BASE	3:07:03
12" TO 24"	GRAVEL SUB-BASE		3:07:02
	SUB-GRADE		3:07:01



ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

SCALE: NO SCALE	APPROVED: A. SIMONIAN
DATE: JANUARY 1982	DWG. NO. :

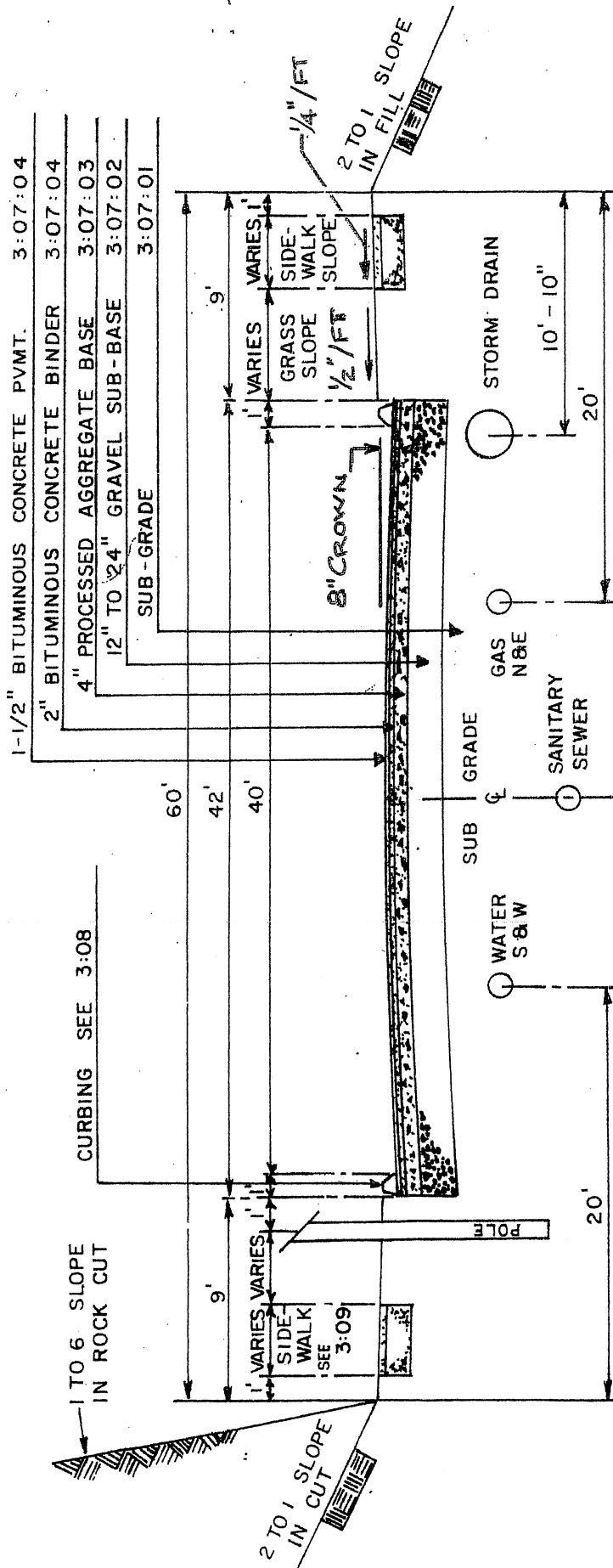
APPROVED BY THE TOWN PLANNING COMMISSION

CHAIRMAN

DATE _____

DWG No 19

TYPICAL SECTION OF MAJOR STREETS & BUSINESS STREETS



REVISED APRIL 2 2007

ENGINEERING DEPARTMENT
TOWN OF BERLIN
BERLIN, CONNECTICUT

APPROVED BY THE TOWN PLANNING COMMISSION

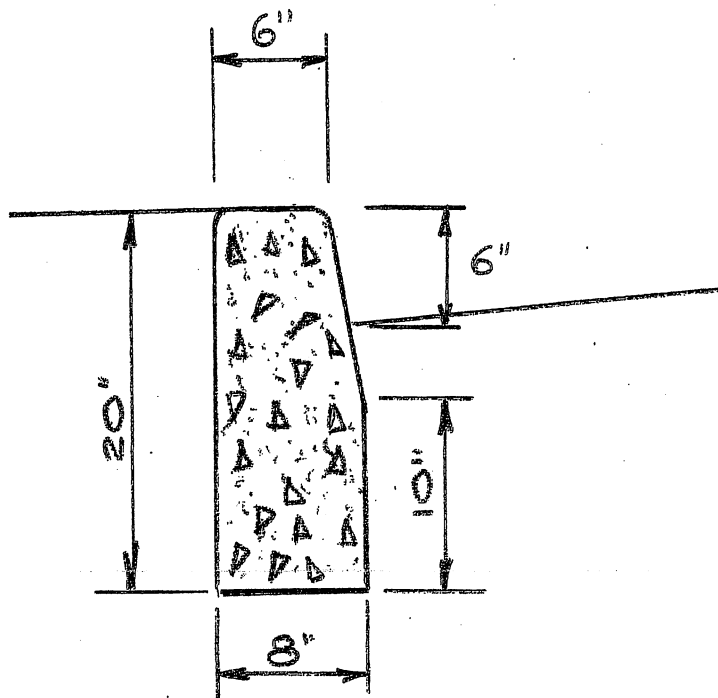
DATE CHAIRMAN

SCALE: NO SCALE

APPROVED: A. SIMONIAN

DATE: JANUARY 1982

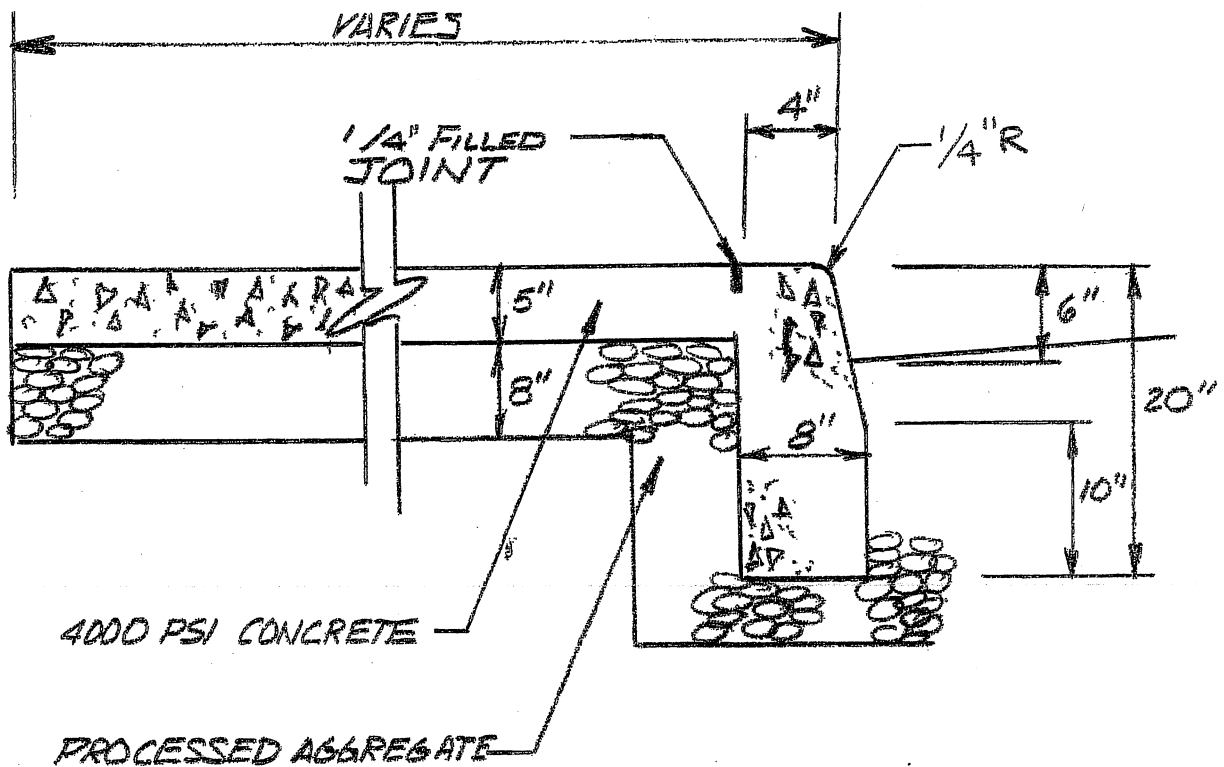
DWG. NO.:



CONCRETE CURB NTS

NOTE 3/4" EXPANSION JOINT EVERY 20' OF LENGTH

ENGINEERING DEPARTMENT TOWN OF BERLIN BERLIN, CONNECTICUT	
SCALE: NO SCALE	APPROVED:
DATE: 11-29-00	DWG. NO.: 21



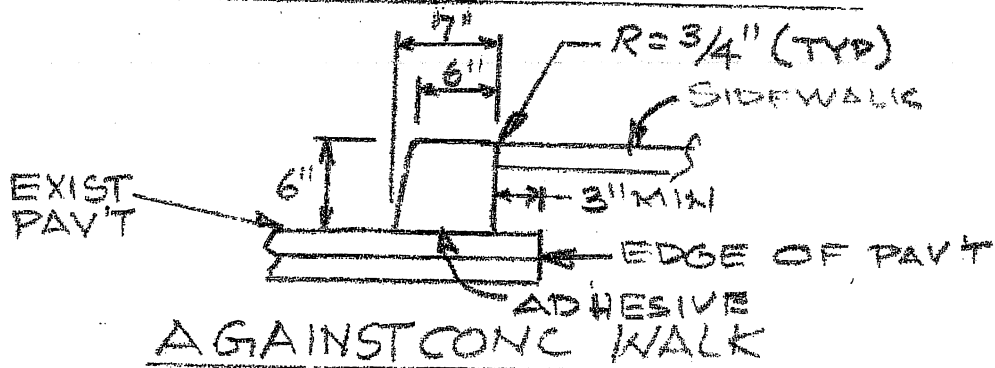
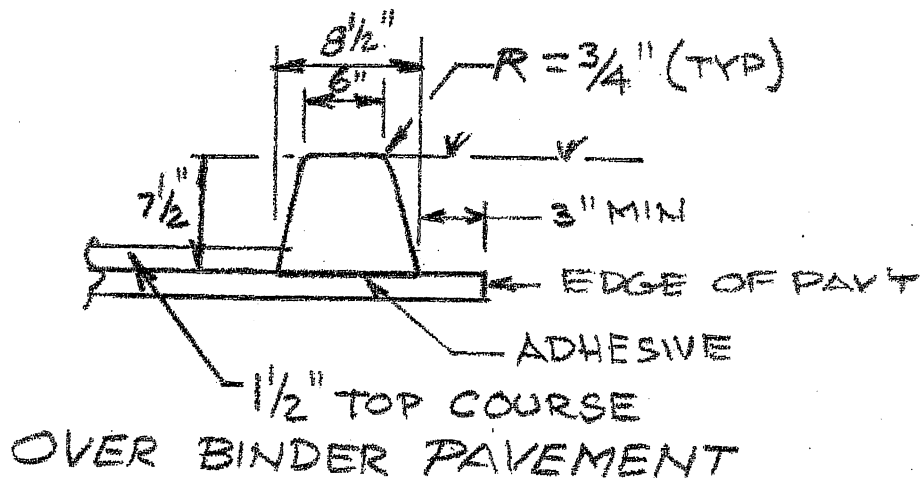
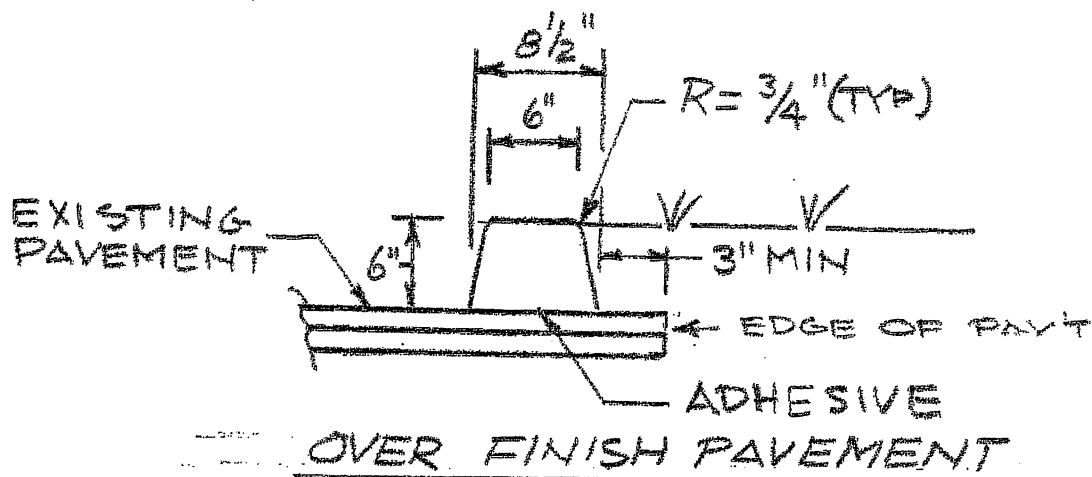
MONOLITHIC CONCRETE CURB

NTS

Engineering Department
Town Of Berlin
Berlin, Connecticut

Scale: None
Date: Oct. 1

Approved
Dwg. No. 22



EXTRUDED CURB

NTS

Engineering Department
Town Of Berlin
Berlin, Connecticut

Scale: NTS

Date: AUG 2004

Approved By:

Drawing No.: 23